PERIODICAL
P PUB LIBY-PERIOD DIV
5201 WOODWARD AVE
DETROIT 2 MICH
1250 259891 D

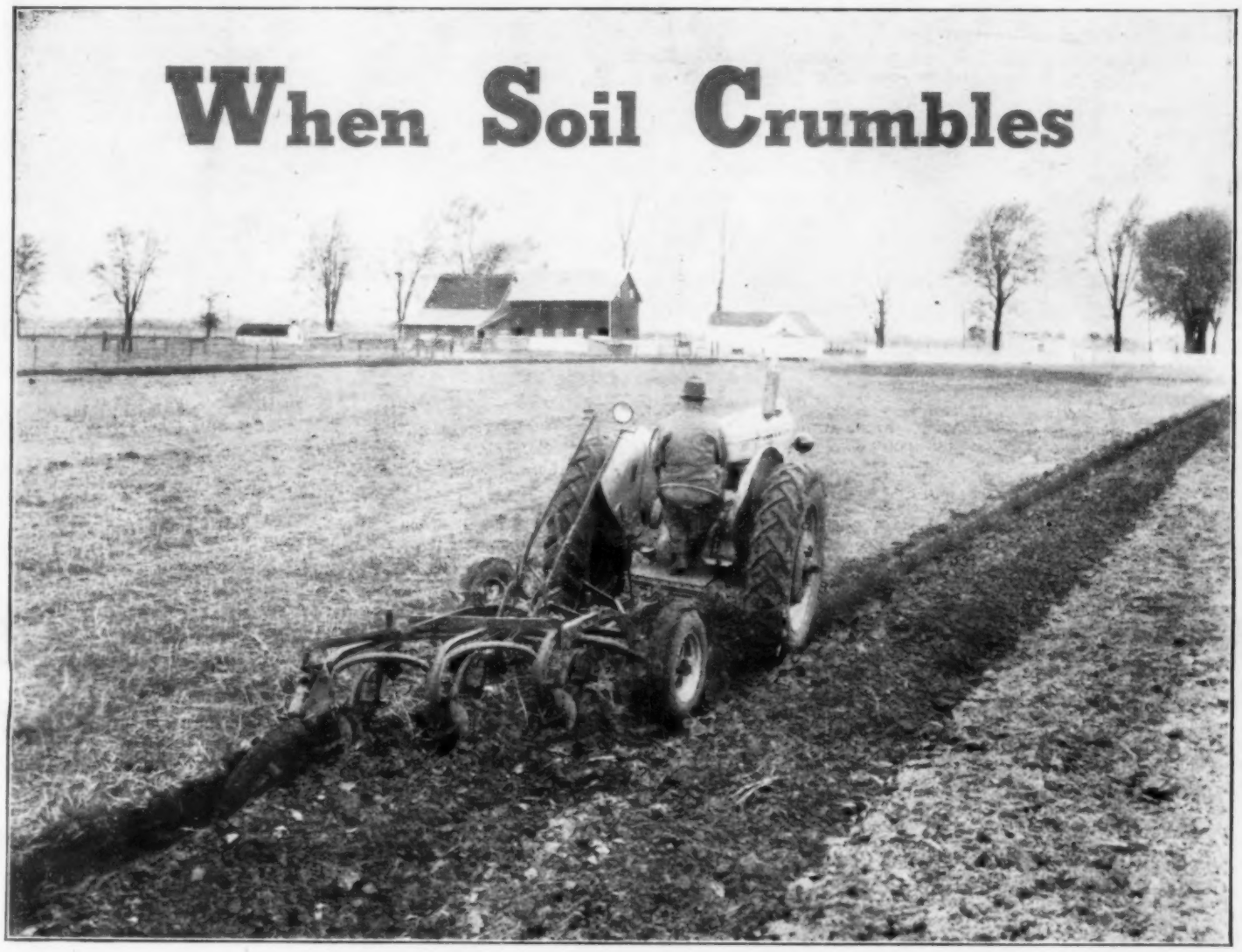
BUY U.S. SAVINGS BONDS

WALLACES' FARMER AND Iowa Homestead

Good Farming *Clear Thinking* *Right Living*

PUBLIC LIBRARY
MAR 24 1949
DETROIT

When Soil Crumbles



Get Chicks Started Right . . Page 9

Plan More Spring Litters . . Page 12

Ready To Battle Borers? . . . Page 20

Good Farming Kills Weeds . Page 32

Contouring Isn't So Hard . . Page 56

SPRING plowing has to be timed right to do the best job. Soil condition is the thing to watch. Whether early or late is not important.

Clods are made by plowing soil when it is too wet. Pressure from the tractor wheels and the pressure at the moldboards pack the wet dirt into chunks.

When the soil crumbles as it slips off the moldboard, moisture conditions are just right. The crumbled earth holds both air and moisture. It settles into a firm, mellow seed-bed that works easily and makes plant food available to corn and bean roots.

So, if you want to give your corn and beans the best chance, watch the condition of the soil. When that mellow condition is present, hurry the plowing as you would the harvest when grain is ripe.

MARCH 19, 1949

IOWA'S LEADING FARM NEWSPAPER

New Super-Sure-Grip lets you plow where other tires won't!

Name the tougher soil conditions you come up against—the kind that usually stop your tractor cold from tire slippage. There is where this massive new SUPER-SURE-GRIP keeps you going!

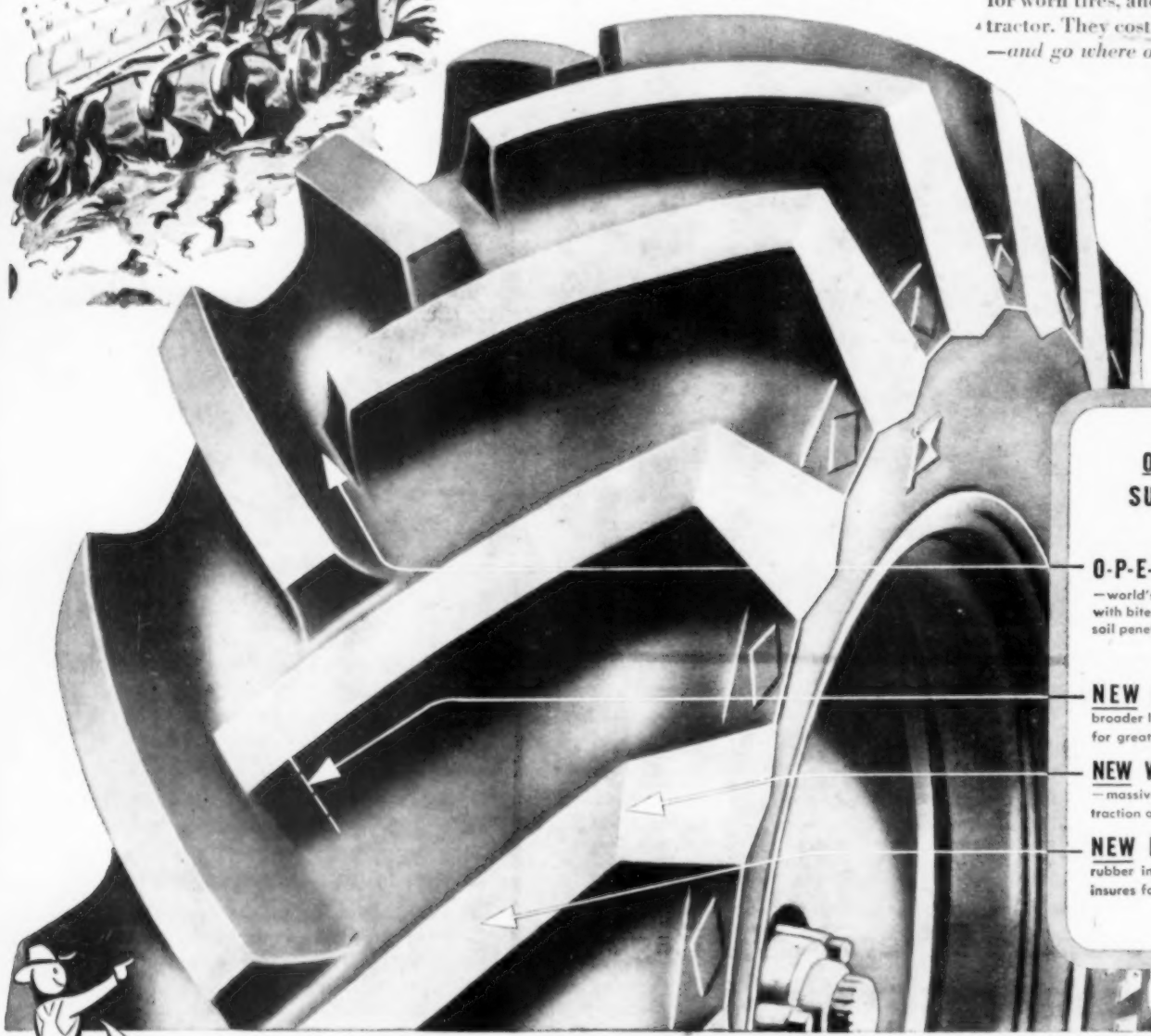
In hundreds of field tests this new Goodyear outpulled competitive tires—even got tractors hitched to big plows through slick, slippery fields under heavy drawbars where other tires stopped dead from slippage!

That's because this amazing new SUPER-SURE-GRIP has all the proved superiorities of o-p-e-n c-e-n-t-e-r design PLUS deeper bite, longer wear and far greater traction.

A look at its tread shows you: Lots more rubber in the lugs, which means lots more rubber in the ground. Bigger, broader, longer, *high-shoulder* o-p-e-n c-e-n-t-e-r lugs that grip like a gear wheel—providing super-long wear and "the greatest pull on earth!"

That's why this new Goodyear goes where other tires won't—why it keeps tractors working where they couldn't work before. *Yet this premium-performance tire doesn't cost you a penny more!*

So if you want to save days on tough tractor jobs—and keep your tractor working where it couldn't before—get Goodyear's new SUPER-SURE-GRIPS. Get them as replacements for worn tires, and specify them on your new tractor. They cost no more but last far longer—*and go where other tires won't.*



We think you'll like "THE GREATEST STORY EVER TOLD" Every Sunday—ABC Network

ONLY GOODYEAR SUPER-SURE-GRIPS give you

O-P-E-N C-E-N-T-E-R TREAD—world's most successful tread design with bite edge on every lug for full-depth soil penetration.

PLUS

NEW DEEPER BITE—higher, broader lugs put more rubber into ground for greater grip.

NEW WIDE-TREAD TRACTION—massive, square-shoulder lugs extend traction area full width of tire.

NEW LONGER WEAR—extra rubber in higher, thicker, balanced lugs insures far longer wear at no extra cost!

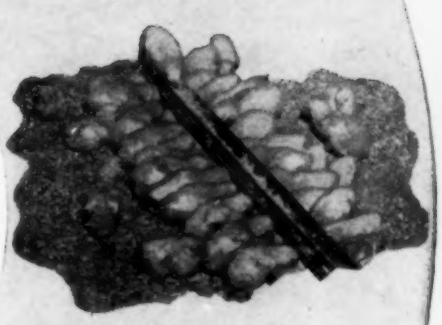
Super-Sure-Grip—T.M. The Goodyear Tire & Rubber Company

GOODYEAR

Super-Sure-Grip Tractor Tires

THE RIGHT START IS THE *Occo* START

ADD *Occo* Mineral Compound to your young stock feed



Tune In

OCCO NEWSTIME, WMT, Cedar Rapids, 7-7:15 a.m., Mon-Wed-Fri; WNAX, Yankton, 7-7:15 a.m., Tues-Thurs-Sat; WHO OCCO FARM NEWS, Des Moines, 12-12:15 p.m., Tues-Thurs. Also OCCO SERVICE MAN'S "BREAKFAST CALL," (with Rex Allen), WLS, Chicago, 7:15-7:30 a.m., Mon-Wed-Fri.

Nice, big crops of Spring pigs already farrowed or soon to be farrowed . . . lots of lambs, little calves and baby chicks. That's the story on many a midwest farm now. If you have or soon will have plenty of young stock on your farm, you know that the important thing with these animals is the RIGHT START.

And if you are one of the many farmers who feeds Occo Mineral Compound, you know that this outstanding mineral balancer of livestock rations is mighty important to this RIGHT START. Occo contains essential minerals that aid your young stock in retaining their baby fat . . . in staying in top condition . . . and in building sturdy bone structure. Occo fortifies rations with essential minerals so necessary to fast, thrifty growth.

Have your nearby Occo Service Man give you the facts about Occo Mineral Compound and Occo feeding programs . . . a combination that has helped thousands of livestock raisers get their young stock off to the RIGHT START. Or if you prefer, write direct to us for this information.

Look For the OCCO Sign on Your Occo Service Man's Car

ADD *Occo* MINERAL COMPOUND TO LIVESTOCK AND POULTRY RATIONS

OELWEIN CHEMICAL COMPANY OELWEIN, IOWA

A GOOD START IS HALF THE BATTLE

Quality chicks, adequate room, proper equipment, sanitation and disease control; all are important. But, don't forget to feed a high quality starter.

BETTER CHICKS "It doesn't pay to skimp on chick starter. I've learned by experience. My chicks do better if plenty of feed and water are available right from the start." Experts agree. If you're going to take advantage of early fall egg prices, you must plan ahead, follow approved management practices and full feed all the way from brooder to laying house.

The first 75 days are vital. State college tests show that little pigs are stronger, healthier and grow faster when fed a balanced ration early . . . and more pigs are saved.

FAST GAINS "Experience is a great teacher. I found out that I saved more pigs and they finished faster when I regularly feed a balanced supplement with corn." This farmer, like so many, has learned two important facts. A Balanced Supplement fed with home grown grains, gives his pigs the ration they need for quick gains at the lowest possible cost. He's learned too that to get the most for his money he must feed a Balanced Supplement regularly. "Hit or miss" feeding will not give the same results . . . and corn alone cannot do the job.

REMEMBER THIS

Little pigs and chicks have small stomachs. They cannot hold much feed. So, what you do feed them is mighty important. Don't try to cut corners when it comes to feed. Buy a good Balanced Supplement or complete starter for your pigs. A good starter for your chicks. And, FEED IT REGULARLY. Consistent use of good feeds, containing a balance of proteins, vitamins and minerals, plus sound management practices is your best profit insurance. Any good feed dealer will be glad to give you all the information you need to set up a profitable feeding program.

FEED INSTITUTE, Inc.
622 Des Moines Bldg. — Des Moines
BUY FEED WITH CONFIDENCE FROM A FEED INSTITUTE MEMBER

INSIDE STUFF

FRED HAWLEY died several years ago. I don't know what kind of a monument his folks put over his grave in Pocahontas county. I know the kind he'd like.

▲ ▲

THE MONUMENT Fred would like would be tenancy legislation for Iowa. He just got one little advance installment on that monument. That was the notification law—the one that says you have to give notice by November 1 if the lease is to end on March 1.

▲ ▲

NOW THAT is in danger. There's a bill before the legislature (H. F. 290) to cut the heart out of that law.

▲ ▲

THERE'S MORE about this law on page 6 and in the Wallace-Homestead Poll report on page 26. I hope you read both.

▲ ▲

WHENEVER that notification law comes up, I think about Fred. He and other farmers on his committee went all over the state, talked to thousands of farmers and land-owners, and got together a useful group of recommendations for tenancy legislation.

▲ ▲

THE HAWLEY committee felt that it was hard for a farmer to do much for the land, his family or himself if he had to move every year or so. A fellow has to stay put for a while to be a good farmer.

▲ ▲

HOW CAN YOU help him to stay put? That was the question. The committee made a number of suggestions. None of them got to first base except the notification bill. The Farm Bureau and other farm groups put it over.

▲ ▲

I THINK the notification law ought to be preserved. And improved. What's more, I'd like to see Governor Beardsley appoint another committee, with somebody like Hawley at the head of it, to report to the next legislature on tenancy legislation.

▲ ▲

THERE'S LOTS of speculation about the new dean of agriculture at Iowa State College. Dean Kildee, to everyone's regret, is quitting because he has about reached the retiring age of 65.

▲ ▲

PRESIDENT Friley and the board of education—poor fellows—have the big job of trying to find somebody who can head teaching, extension and experimental work.

▲ ▲

MAYBE our Iowa board of education plans to use Nebraska's methods. The Nebraska University has recently selected a top-notch president and a top-notch dean of the school of agriculture.

HOW DID NEBRASKA do it? By asking the local chapter of the American Association of University Professors to hunt around and make recommendations. The professors recommended the men that the board later approved.

▲ ▲

THE SAME PLAN might work well at Iowa State. Certainly, it would take some of the load off the president and the board. And the new man, whoever he is, would be welcomed more warmly if he were the choice of a faculty committee as well as of the president and of the board.

▲ ▲

IN WISCONSIN last week, I learned that the folks who write school laws for that state seem to hate to have tax-payers vote on their plans. The present law carefully avoids a popular vote on approval of school reorganization.

His Law **is in danger. The late Fred Hawley, Pocahontas county, headed 1938 tenancy committee and recommended tenancy bills to the legislature. His notification law is now under fire.**

▲ ▲

AN AMENDEMENT before the Wisconsin legislature says: If the county school committee brings out a reorganization plan, then a referendum can be called for. If Plan I is voted down, the committee can bring out Plan II. If Plan II is voted down, the committee can bring out Plan III.

▲ ▲

HERE'S THE JOKER: Plan III can't be voted on. It just goes into effect. Sounds queer to me.

▲ ▲

OUR RED BIRDS shifted to their spring song two weeks ago. A neighbor says he's seen two robins. One optimist claims all of the weather signs point to an early spring.

▲ ▲

HOW MANY ACRES of clover and alfalfa are you seeding this spring?

DONALD R. MURPHY.

WALLACES' FARMER AND IOWA HOMESTEAD
(Volume 74—Number 6)
Dante M. Pierce, Publisher. Published first and third Saturdays of each month, at 1912 Grand Ave., Des Moines, Iowa. Subscription price, postpaid, $1 for two years. Canadian and foreign countries, $1.25 for one year.
Editors: Donald R. Murphy, Homer Hush, Merrill C. Gregory, Wallace D. Inman, Leon E. Thompson, Cyril L. Moffitt, Wendell S. Clampitt, Zoe R. Murphy, Home Department, Earl F. Wisdom, Legal Editor.
Copyrighted, 1949, by the James M. Pierce Corporation.
Entered as second-class matter, Oct. 19, 1929, at the post office at Des Moines, Iowa, under the act of March 3, 1879.

Thick Oats May Smother $4 To $8 Seedings

May Get Legume Stand, Also Big Oat Crop, By Watching Three Points

By HOMER HUSH

WHEN it costs $4 to $8 per acre to seed clover and alfalfa, you don't want the oats to smother the legumes.

And when you pay that much for legume seed, you need a good oat crop to offset the cost.

Can you get a good oat crop and still give high-priced legume seed a chance to live? There are reasons to think you can if certain points are watched.

Here are three of the most important points:

(1) Rate of seeding.
(2) Method of seeding.
(3) Proper use of fertilizer.

How Much Oats Per Acre?

Clover or alfalfa must have some light if they are to live in the oats. You may have seen clover die in rich spots where the oats grew thick and rank. Even with plenty of moisture, legumes will die without light.

What some farmers may not realize is that the new Clinton oats shut out more light than the older varieties. Big leaf growth goes along with big producing power.

So, don't sow Clinton oats too thick. Ed Dyas, Iowa State College agronomist, recommends one and one-half to two bushels per acre. This is for broadcasting.

Now the bushel-and-a-half rate might come close to cutting the yield of oats. The two-bushel rate might come close to shutting out sufficient light for the legumes.

It seems to be a question of which you want most to protect. If you would rather risk cutting the oat yields than killing the clover, sow one and one-half bushels. If a full oat crop seems most important, sow two bushels broadcast.

Should Oats Be Broadcast?

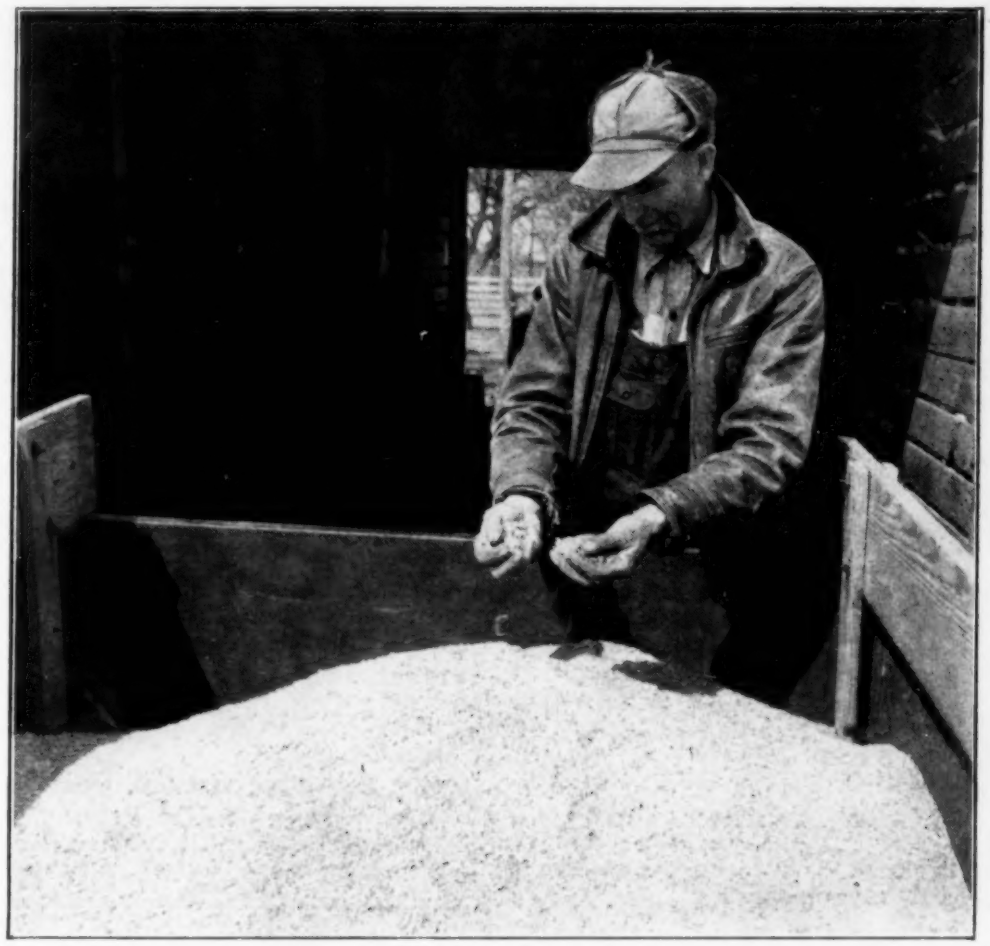
This brings up another question: Early sowed oats usually make the best yields. In four-year Iowa tests, the yield went down one bushel for each day's delay in seeding. (Clinton oats may suffer less from delay.)

You can usually broadcast oats several days before the ground is dry enough to drill without clogging. So farmers have pretty largely used the broadcast seeder instead of the drill.

But in a one-year test at the Iowa station, in 1948, drilled oats made four bushels more per acre than broadcast oats. And the legume seeding seemed to benefit even more from drilling.

Using 100 for the index figure for the alfalfa stand secured in broadcast oats, the oats drilled in seven-inch rows made an alfalfa stand of 110. With the rows spaced 14 inches, the alfalfa stand was 135.

Oats in 14-inch rows are unusual. It is worth noting that the wide rows produced more oats and a better alfalfa stand also.



New questions come with new oats: How thick? Drilled or broadcast? Fertilizer?

Wide Drill Rows Are Tried

Even 21-inch oat rows were tried at the Iowa station. The oat yield was the same as with broadcast oats, but weeds became a problem with the wide rows.

In the above tests, seeding rates were three bushels for both broadcasting and drilling in seven-inch rows. Two bushels per acre were sowed in the 14-inch rows and one bushel in the 21-inch rows.

The Iowa State College men don't say to throw away your endgate seeder yet. A one-year test is not final. But Dyas recommends drilling for those who have an ordinary drill. If you want to try the 14-inch rows, you can plug up every other hole.

When both oat yields and legume stands are considered, the drill will almost surely be best for the legumes. The advantage for the drill on oat yields is not proved.

How Can Fertilizer Help?

Nearly every farmer believes that phosphate fertilizer helps legume seedings. This is true almost all over the corn belt states. It will help the yield of oats, too, in most areas.

So, if you want to make more certain that you don't lose the money spent for clover or alfalfa seed, put on about 200 pounds of 0-20-0. For alfalfa, it may pay to apply 300 pounds.

How about nitrogen and potash? Most agronomists say that potash is great stuff for corn on some soils. It has shown little effect on oats and legumes. But it's different when you talk about nitrogen.

Nitrogen increases oat yields. This is particularly true on poor soil or where two or more corn crops have been grown since the land was seeded. Grain crops use up nitrogen.

How Much Nitrogen?

In Iowa tests in 1948, 20 pounds of nitrogen per acre gave an increase of seven and one-half bushels of oats per acre. In 95 per cent of the trials, oats responded to nitrogen profitably.

Dyas recommends 10 to 20 pounds of nitrogen per acre for oats and 40 pounds of available phosphorus. That might be 250 pounds of 4-16-0 per acre, or, for the heavier nitrogen application, 200 pounds of 10-20-0.

But, when fertilizing oats seeded to legumes, remember about the sunlight the clover and alfalfa need. Don't put on so much nitrogen that the legume will be smothered. Rich land should have none.

When records of experiment stations and experiences of farmers are taken together, it seems that oat growers can depend on these recommendations:

To get an oat crop and a legume catch, sow oats rather thinly, drill the oats if you can, use phosphorus for the legume and nitrogen to increase oat yields on poor land. And sow the oats as early as the ground is in shape.

Editorials

Here's How To Sell More Meat

WHENEVER livestock prices drop, farmers begin to wonder how to sell more meat—at good prices — to consumers. Cornell University, in a study sponsored by the Meat Institute, gives part of the answer: See that poor families get more money to spend.

Cornell made surveys of meat purchases in March of 1942, and in March of 1948.

Families whose incomes were below average in 1942 purchased 21 per cent more meat in 1948 than in 1942.

Families whose incomes were above average in 1942 bought only 2 per cent more meat in 1948.

Biggest increase in meat buying came from families who had low incomes in 1942, but had increased these incomes considerably by 1948. These folks increased meat purchases by 63 per cent.

Apparently, livestock men profit directly when city workers with low incomes get a boost in pay. Everybody likes meat. But it takes money to buy it.

This is why it is so important for farmers that city people—particularly those with low incomes—keep working and get paid in proportion to the work they turn out. And that the food stamp plan be revived to help the unemployed keep eating.

A meat surplus fades away like snow in a spring thaw when folks are able to buy the meat they want.

TENANTS HAVE RIGHTS

So do landlords. And Iowa's notification law, which says that tenant or landlord must give four months' notice of termination of a lease, protects both.

Farmers like the law. They believe it is only fair to see that a landlord gets four months to look for a new tenant; or a tenant four months to look for another farm.

But H. F. 290, now before Iowa's house of representatives, would cut the heart out of the law, and should be killed.

The Iowa legislature should do more than kill this attempt to wreck the notification law. It should amend the law to patch up the holes made in it by supreme court decisions.

One supreme court decision says that tenant and landlord, in drawing up a lease, may agree to waive the requirement of notification. This is a little like a borrower and lender drawing up a note and agreeing to ignore the state law on interest rates.

H. F. 290 should be killed. And the notification law should be amended to put back in the teeth that the supreme court pulled out.

How To Use More Grass, More Hay

MOST farmers agree that their land would be better off, and corn production still high, if they shifted to a longer rotation. On a good many farms, a corn-oats-clover rotation, or a corn-oats-meadow-meadow rotation would keep up fertility and yields where a corn-corn-oats-clover rotation pulls both down.

But that means a lot more hay and grass on each farm. What could be done with them?

One farmer says no corn belt farm ever has a surplus of grass. Everybody runs short. Maybe there's no problem here.

But there would be more hay. Should the corn belt raise and feed more beef cattle and sheep? Or shift to milking more cows?

That's one of the soil conservation problems, too. When a farmer changes his rotation, he also changes the balance of his livestock.

Don't Plant Corn To Raise Allotment

DON'T plow up all of your pasture this year just to get a big corn base for 1950. Some farmers, remembering old AAA allotments, are wondering if they should put in a lot of corn in 1949 in order that the five-year average for their farms may be high.

Congress is still arguing, but there seems a good chance that 1949 acreage in corn won't be counted in making 1950 allotments.

The historical base for allotments worked many injustices. A farmer who has been graining his land to death can cut 20 per cent and still have more corn than his land ought to carry. A farmer with a good rotation may find an acreage cut reducing his corn land below the point good management would prescribe.

If we have allotments again, we need to use a different base. Raymond Strain, AAA chairman in Union county, Iowa, suggested recently that a sound soil conservation plan for each farm might be used as a base.

But don't grow corn in 1949 just to build up your allotment base. And don't grow any more bushels than you can feed or seal. The price of free corn next fall could easily be half a dollar a bushel below the loan price.

When Does The Next Dry Spell Come?

WHEAT farmers think we should build up a big reserve of wheat. They may be right.

Weather — not acreage — has always been the thing that counts in wheat production. In the dry period of 1933-36, an average of 69 million acres was planted to wheat and produced an average crop of 584 million bushels.

In the wet period of 1945-48, an average of 74 million acres was planted, and produced an average crop of 1,229 million.

How much should we store? The problem would be easier if we knew when the next dry period was coming.

Don't Penalize Farmers

Full Production Helps Nation; May Hurt Men Who Turn It Out

Can you get business, labor and farmers to agree on the kind of farm policy that makes sense for the whole nation? Below, we print extracts from a policy statement debated, amended and finally approved by the members of the agriculture, business, labor and international committees of the National Planning Association.

WITH sound planning in the field of agriculture, we can meet more successfully situations such as the following:

1. Farm product prices rise faster than non-farm prices in a period of inflation; fall faster in a period of deflation. Because of these variations in prices, agriculture is the most vulnerable part of the economy. These terrific changes in farm prices and income make the ups and downs of business cycles more extreme.

2. In spite of local drouths and floods, farm production over the whole United States stays relatively steady in good times and bad, while industrial production changes sharply. From 1930 to 1940, agricultural production shifted from a low of 91 per cent of the 1935-39 average to a high of 106 per cent. In the same period, iron and steel production ranged from 32 per cent to 147 per cent.

3. Because agricultural production remains relatively steady in good times and bad, it provides insurance to the nation against the extreme hardship of depression. This kind of social insurance, however, may have two drawbacks: Farmers may go broke in providing it, and the people who need food worst may not get it.

4. Soil conservation suffers in the ups and downs of farm income. In boom times, some farmers plow up pasture to get a cash crop before the sheriff takes over.

THE National Planning Association suggests that the most desirable farm program for balanced abundance could be secured by trying out forward pricing on a flexible basis to guide farm production and to provide minimum price supports; by soil conservation and management programs; by moderate appropriations for such projects as school lunches and food stamps, and by provision for large storage supplies of wheat, corn and cotton. . . .

BUT if employment and pay rolls fall sharply . . . the nation should be ready:

1. To expand subsidized consumption so that all the unemployed and poorly paid will get enough food to keep them healthy.

2. To provide some kind of price or income insurance for agriculture so that collapsing farm income will not intensify the business depression.

You Need U. S. Savings Bonds Now

THIS is a good year to pay debts. If your debts are under control, it is also a good year to buy U. S. Savings Bonds.

See what happens when you buy an "E" bond. You get these results:

1. A ready cash reserve. You can cash the bond whenever you need money in a hurry. Of course, you'd like to hold the bond the full 10 years. But if you need cash, you can get it.

2. Good interest on the bond. It pays 2.9 per cent interest if held for the full 10 years. You get less if held for shorter periods. But $75 invested now will bring you $100 in 10 years.

3. Bonds will gain in buying power. The price level is declining now. A dollar now buys more than it did six months ago. If you put $75 in a bond today, and get back $100 in 10 years, the $100 in 1959 may buy as much as $125 or $150 would buy today.

In a business way, there is more profit now in buying U. S. Savings Bonds than there was during the war. Any farmer would make money by going back to his war-time schedule of bond buying.

Too Many On Farms Have Undulant Fever

HOW many farm people get undulant fever? Its other names are brucellosis or Bang's disease.

Up in Wisconsin, Dr. J. T. Schwab, of the state department of agriculture, said that 12 per cent of patients admitted to hospitals showed, by test, that they had been exposed to brucellosis.

Be careful in handling aborting sows or cows. Unless you're dead sure that cows that furnish milk for your family are free of Bang's, pasteurize the milk.

Better methods for treating undulant fever are being developed. But it is still hard to cure. And unpleasant to have.

Protect yourself and your family.

Not Until You Say So

DON'T worry about a new school program being put over in your county without your having a chance to vote on it.

The Iowa law says flatly that when the county board proposes a rearrangement of school districts, each district affected must vote on the new plan. Unless a district votes approval, the plan does not go into effect for that district.

Under the older consolidation law, the farm districts have to vote separately from the town districts on consolidation. Unless the farm districts approve, they don't need to go into the consolidated area.

This protects local interests right up to the hilt. Some school people say it over-protects these local interests.

They suggest that a county-wide plan should be approved by a county-wide vote. Otherwise, one or two backward districts may hold up progress.

There are risks both ways, of course. Under the present law, some sensible consolidations may be held up. Under a law for a county-wide vote, one or two big towns might grab off all the schools.

Wallaces' Farmer and Iowa Homestead believes we'd better stick with the law as it is. But, if this is done, farm people in every district have an obligation to come out to meetings and learn what the new plans are.

A fellow who stays home, refuses to listen to arguments, and blindly votes "No," is harming the cause of local self-government.

Odds *and* Ends

NOW we start guessing about the weather again. What a help it would be if a fellow knew now what temperature and rainfall would be in August!

WHEN we asked farm men and women what they were worrying about, a good percentage said: "Money." To some that meant debts; to others it meant new investments. And some women claimed it meant getting money for a water system out of the old man.

MORE feed-lots will be paved this year. Farmers wanted to do more of this last year, but couldn't get the materials.

MORE grasshoppers, less corn, fewer tons of hay, higher prices for feed would go along with a dry season. And farmers with more hogs than corn would have trouble next winter.

BUT if we have a wet season, and a corn crop like last year, then look for cheap corn, big feeding margins, and lots of storage trouble.

PAY rolls and employment are expected to pick up next month. And shipments of hogs—from last fall's big pig crop—are likely to increase, too.

WILL pay rolls increase enough in April to take care of increased hog shipments? Or will we have a mild drop in hog prices in late spring?

LARD exports are off. One reason is that in the war years we sent an average of 108 million pounds a year to Russia. Now we send nothing there.

LOSSES of cattle and sheep in blizzards looked big, but actually cattle losses were far less than 1 per cent of the total number of beef animals in the country. Blizzards brought ruin to some ranchers, but made little difference to the nation as a whole.

THIS season will see lots more use of DDT and 2,4-D. Emergent sprays of 2,4-D on corn ground—to catch weeds as they start up—will be tried on many farms.

FLIES will have another hard season as farmers spray barns with DDT. Kill the flies, but be sure that no spray gets in the milk.

FIX things up at home so that "farm boys and girls will not go to the city merely because the farm home does not have electric lights and running water." That's what the American Farm Bureau Federation says.

Song of the Lazy Farmer

SPRING cleaning time is here again, and tho that ain't no job for men, Mirandy claims I should help, too, because I've nothing else to do. In order to escape the doom of slaving with a mop or broom, I have to leave my stove and chair and heat into the springtime air with some excuse about the chores that must be done now out-of-doors. She's so surprised to see me move, she doesn't try to make me prove that there are really things out there that can't wait longer for some care; she even worries some 'bout me for fear I'll work too hard, by gee.

But, natur'ly, I use my head and whittle sticks behind the shed; there's no sense rushin' things, I say, spring chores will wait another day. And I don't have a sense of guilt, I don't think any house was built to be spring-cleaned by a mere male, at housework he will always fail. No matter how hard I might try, I know I'd make Mirandy cry by hurryin' the job too much and missin' dust, cobwebs and such. Besides, she'd have to follow me and re-do two jobs out of three, so she's ahead if I just stay out here where I'm not in her way.

Husker in Argentina uses peg, drops ears into long bag that is hooked to belt, drags along ground. Each 80-100 pounds is dumped into collection bags.

Down In Argentina...

They're Husking Today

Iowan Tells How It Feels When July Weather Suddenly Turns To January

Arthur T. Thompson, formerly associate editor of Wallaces' Farmer and Iowa Homestead, spent the last three years in Argentina as U. S. agricultural attache. In this article, he tells how you'd raise corn if you lived down there. Thompson now is back on his farm in Greene county, Iowa.

THE sun rose in the right place, in the southeast. But, instead of climbing a long, high arc to the north, it cut low to the southwest and disappeared too early.

The roadside was no longer flanked with tasseling corn. And farmers were not plowing grain stubble for next season. Instead, plows and disks were shedded or buried under snowdrifts.

What had happened? Only this: I had left Buenos Aires in midsummer—January 5. In a few hours I had flown straight into the middle of a U. S. winter.

In Argentina, you see, the seasons are just the reverse of ours. That's why the Argentines usually start husking corn in late March.

Most Argentine corn still is picked by hand. The husker works between two rows, taking the ears off each as he goes. He works bareheaded and uses a simple husking peg.

The ears go into a long cotton bag brought up between the husker's legs and hooked into his belt. The bag has a leather facing on one side, to resist wear as it slides along the ground.

There is a growing interest in mechanical pickers, but not many are in use so far. Not much machinery is made in Argentina, and there is a shortage of dollar exchange with which to buy American outfits.

Anyway, the standard two-row American picker won't handle rows planted 28 inches apart—the usual spacing in Argentina. And the Argentine flint corn has small ears, tight husks and short shanks. It breaks off easily and cleans poorly.

Argentine corn breeders are hoping to combine the high yields, big ears and disease and lodging resistance of North American hybrids with the appearance and hard starch of their own flint varieties.

This is a big order. But they feel that Argentina can't get away from the insect-resistant flint type as long as most of the crop is exported.

The flint-dent crosses do result in larger ears, and this may help solve the mechanical harvesting problem. Also, some of the hybrid breeders are trying out our row spacing to see if yields really do suffer much.

It gives a midwesterner an odd feeling to see for the second time the start of a hybrid corn industry and of machine husking. The revolution in Argentine corn-growing methods won't be so rapid as ours was. But a change is in the cards just the same.

My sudden shift from summer to winter also convinced me that raising and fattening cattle is a much tougher job in the northern U. S. than it is in Argentina.

Up here we have to feed cattle in drylot about five months of the year—pitching hay, scooping grain, hauling manure. There, unless you're handling purebred stuff, you don't need feeding sheds and other expensive equipment.

Hog-raising, too, is fairly simple for the Argentines. A square of sheet metal for the sow and a small amount of watering and feeding equipment are all that they need.

Argentina has frosts from time to time during the winter, but the ground doesn't freeze. So it is possible to keep steers on cereal grain pasture. With no gap in the pasture schedule, Argentine ranchers grow their market cattle entirely on grass, legumes and cereal grains.

Sorghums, corn and sudan grass are used to get over an occasional summer dry spell. Sometimes a dry winter may require the feeding of hay or silage and oil-seed cake or milling by-products.

But don't get the idea that Argentine farmers have no weather trouble at all. Spring frosts are a constant danger in about half the grain territory—at least until stands are well headed.

In the far south, during July and August, heavy snows may cause livestock losses. Windstorms from the south—called "pamperos"—sometimes roll across the flat country, laying corn flat and shaking out sunflower seed by the ton.

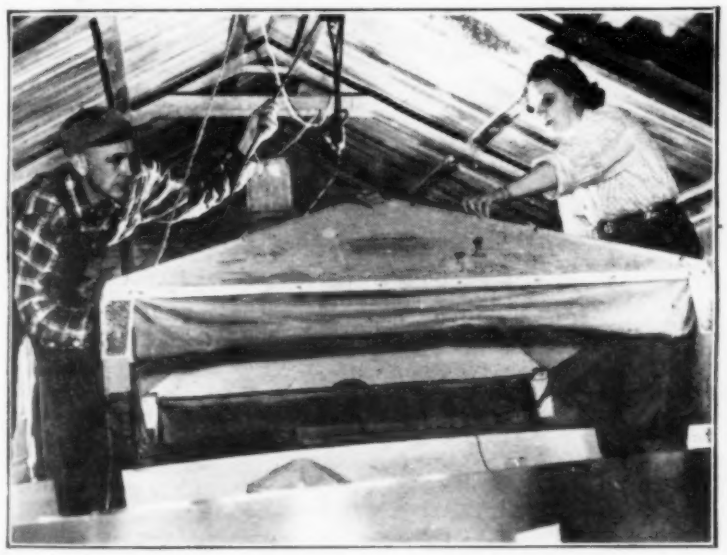
After three years, I now have it pretty well fixed in my head what Argentine farmers will be doing each month. But it took a long time for me to get over the notion that I should write "October" on a letter just because it was a nice autumn day—in April.

Argentine farmer plants corn with two-row, hard-ground lister. But most of crop is drilled in with three-row outfits fitted with shoes or disk openers.

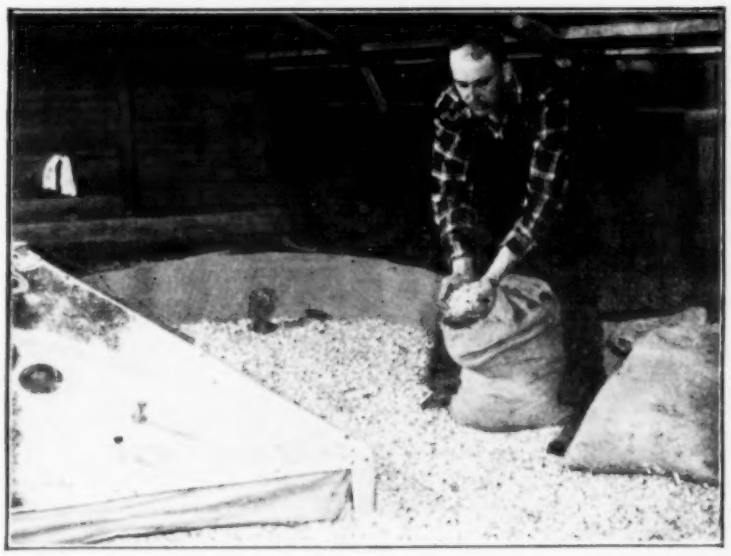
Don't Short-Change Chicks

1 Clean brooder house thoroly several days before chicks arrive. Scrape, sweep and scrub, using scalding lye-water, elbow-grease, as Sam and Jack Mitchell, Adair county, Iowa, are doing here.

2 Disinfect both house and equipment. Andrew Love, Adair county, uses disinfectant in sprayer to reach cracks. Start cleaning job early so house will be dry by the time your chicks come.

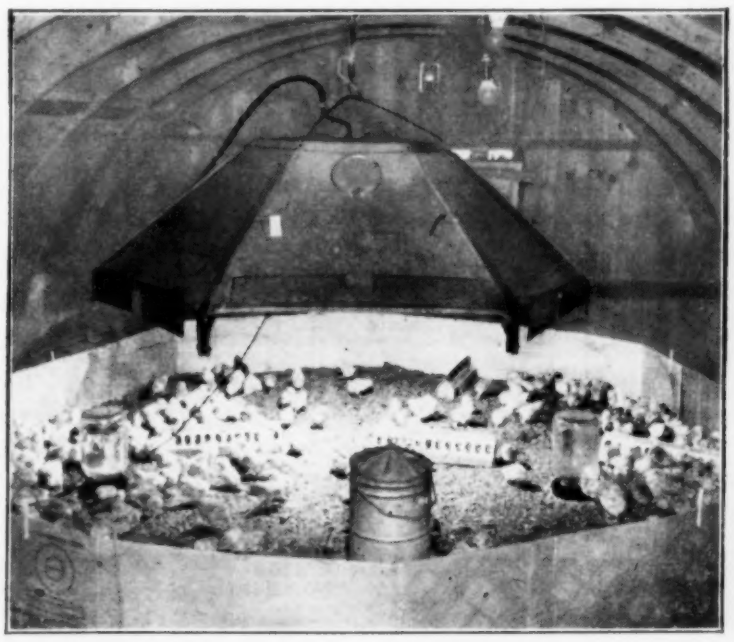


3 Stove should be set up and started a couple of days before you get chicks. This will help dry house, make certain that stove is working properly. Start with temperature at 90 to 95 degrees.



4 Litter should be non-dusty, absorbent. Start with two or three inches, build up later to five or six. Use chick guard—circle of cardboard, wire or metal—around brooder for the first week.

5 Feed, Water should be ready and waiting for chicks. Note that Mrs. Edward Wood and 5-year-old Ann, Warren county, Iowa, haven't spread paper on litter—it's uncomfortable, dirty. Give 100 chicks 100 inches feeder space, 2 gallons of fountain capacity.



6 Here's How brooder house should look when the chicks arrive. Don't overcrowd: Allow half square foot of floor space per chick. Cut brooder heat about 5 degrees a week until you get to 70. Double feed, water capacity when chicks are about 3 weeks old.

How milk protein can help you increase hog profits!

Feed KRAYLETS —80% milk products* with valuable, growth-promoting milk protein!

Proteins in feeds are *not* alike! One of the highest quality proteins you can buy is *milk protein*. It helps give lower quality (animal and vegetable) proteins a powerful boost. Now, you can feed this efficient protein easily and economically with *Kraylets*. It's Kraft's 80% *milk products* in dry kernel form.

Kraylets' rich milk protein puts *lower quality* proteins (in grains) to work. That's why thousands of Kraylets users report remarkable results—more pork for every pound of feed, important savings on grains, earlier market weight and fast, thrifty gains at *every* stage!

Kraylets is convenient, economical dry kernels! No water or waste! No fuss, freezing or flies!

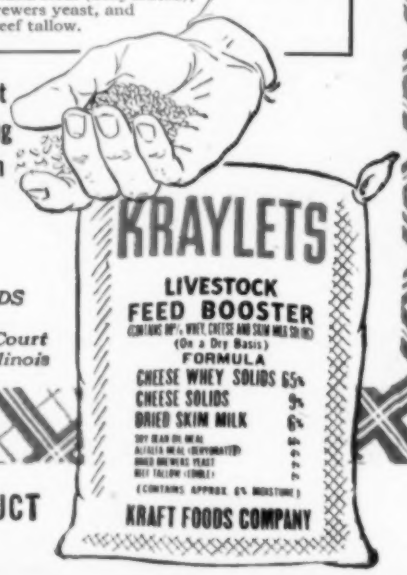
You don't have to lug messy pastes or liquids when you give your hogs Kraylets. It's sanitary, handy *dry* kernels! And it's very economical to feed, too. A little goes a long way. You only need ¼ lb. per hog each day, hand-fed, mixed or ground with other rations. Kraylets gives regular feed a flavor and aroma that makes hogs eat more—helps pack on those thrifty *extra* pounds that pay!

**Kraylets contains 80% concentrated milk products*

The milk products in Kraylets are 65% cheese whey solids, 9% cheese solids, and 6% dried skim milk. The rest of the formula consists of 14% soybean oil meal, 4% alfalfa meal (dehydrated), 1% dried brewers yeast, and 1% edible beef tallow.

Find out about profit-boosting Kraylets from your dealer today!

or write
KRAFT FOODS COMPANY
500 Peshtigo Court
Chicago 90, Illinois



A KRAFT PRODUCT

Workday Pointers

SHARP DISKS cut the surface trash better and cut the ground deeper.

▲ ▲ ▲

WINTER OIL should be drained out of the tractor before it is taken to the field.

▲ ▲ ▲

IF COWS RUN across wet fields just as the frost goes out, there will be a clod for every cow-track.

▲ ▲ ▲

THE REAL TEST of a brood sow is the number and weight of pigs at 56 days of age. Pig markers and a little time spent at far-

rowing and weaning time will tell you which sows are good and which are bad. You might be surprised at the results.

▲ ▲ ▲

TONS OF SOIL can be saved each year on hill-land farms by keeping lots of land in grass and contouring all drilled or row crops.

▲ ▲ ▲

TWELVE DAYS remain to file your Iowa state income tax report and pay the first installment on your personal and property taxes.

▲ ▲ ▲

EARLY-PLANTED shrubs and trees have the best chance to live and grow. Prompt planting or heeling-in after receiving the stock from the nursery is also important.

▲ ▲ ▲

BEEF CATTLE will be higher than hogs for the next three or four years, says Rex Beresford, of Iowa State College. He expects a cattle price level lower than the last two years.

▲ ▲ ▲

CORN CRIBS can be paid for with the difference between present corn prices and the loan price of corn. The 30 to 40-cent margin will build or buy several types of cribs. You get the crib free.

▲ ▲ ▲

SWEET CLOVER sowed with the oats will make a good green manure crop if plowed under in late summer. But if you are going to plow the oat stubble just as soon as you thresh, better save the cost of the seed.

▲ ▲ ▲

HAWKEYE SOYBEANS may be adapted farther south than at first thought, according to Illinois experiments. In a three-year test, the new beans yielded better than any other variety at the Champaign-Urbana experimental farm.

▲ ▲ ▲

MARION OATS sowed on a small field will give you a comparison with the Clinton. It might be particularly important this year if crown rust should develop. Marion oats are thought to be more resistant to crown rust than are Clinton oats.

TREATED OATS are not safe for livestock feed. So treat only as much seed as you expect to sow.

▲ ▲ ▲

WATCH SILO WALLS for needed repairs when the silo is being emptied. Then either fix it while you can get at it easily or put a note in your day-book.

▲ ▲ ▲

OATS DISKED IN on last year's oat stubble may get weedy. Weeds that thrive in oats get a start the first year, and sometimes almost take over the second year.

▲ ▲ ▲

PLOWING CORN STALK land that is to be put in oats will reduce the number of corn borer moths hatched on your farm. But corn borer moths may fly in from your neighbors' unplowed oat fields.

▲ ▲ ▲

LATE REPORTS indicate many bins of oats are worthless for seed because the oats will not grow. Bin heating, so slight that you will hardly notice it, will destroy germination. Better test before you sow.

▲ ▲ ▲

RESELECT CLINTON oats are said to be a little better than the regular Clinton variety. But the difference is not great enough to spend much time and money in making the change.

▲ ▲ ▲

THE MUD SEASON can waste a lot of feed. There are two ways that feed can be lost: (1) Some feed may be tramped into the mud, and (2) animals may eat a lot of mud-covered grain, get out of condition, and make poor gains. Self-feeders and feeding floors should get special attention during the spring thaws.

▲ ▲ ▲

BARN WIRING should be inspected each year for broken insulators, bare wires, uncovered

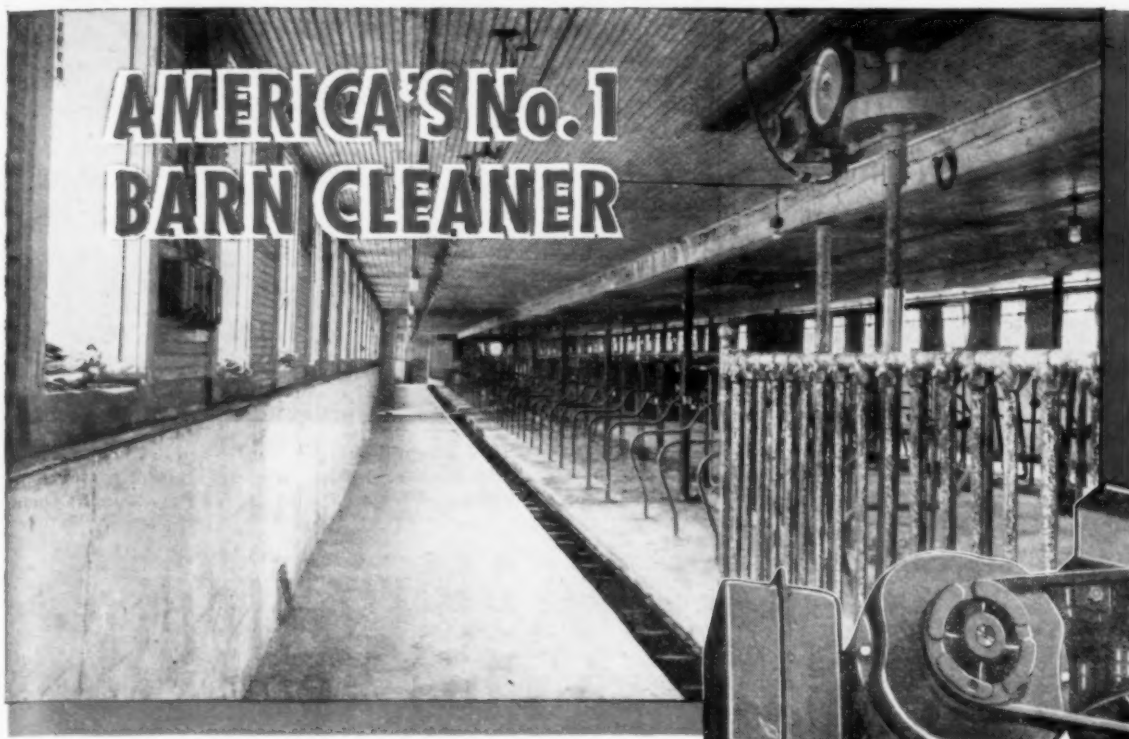
switches and loose connections. For additional safety, brush the cobwebs and trash away from the wiring.

▲ ▲ ▲

MOLDY FEED is known to cause certain diseases. But it is only certain molds that cause trouble, and you can't tell one from the other. Watch animals closely that are eating moldy feed. Suspect the feed at the first sign of trouble.

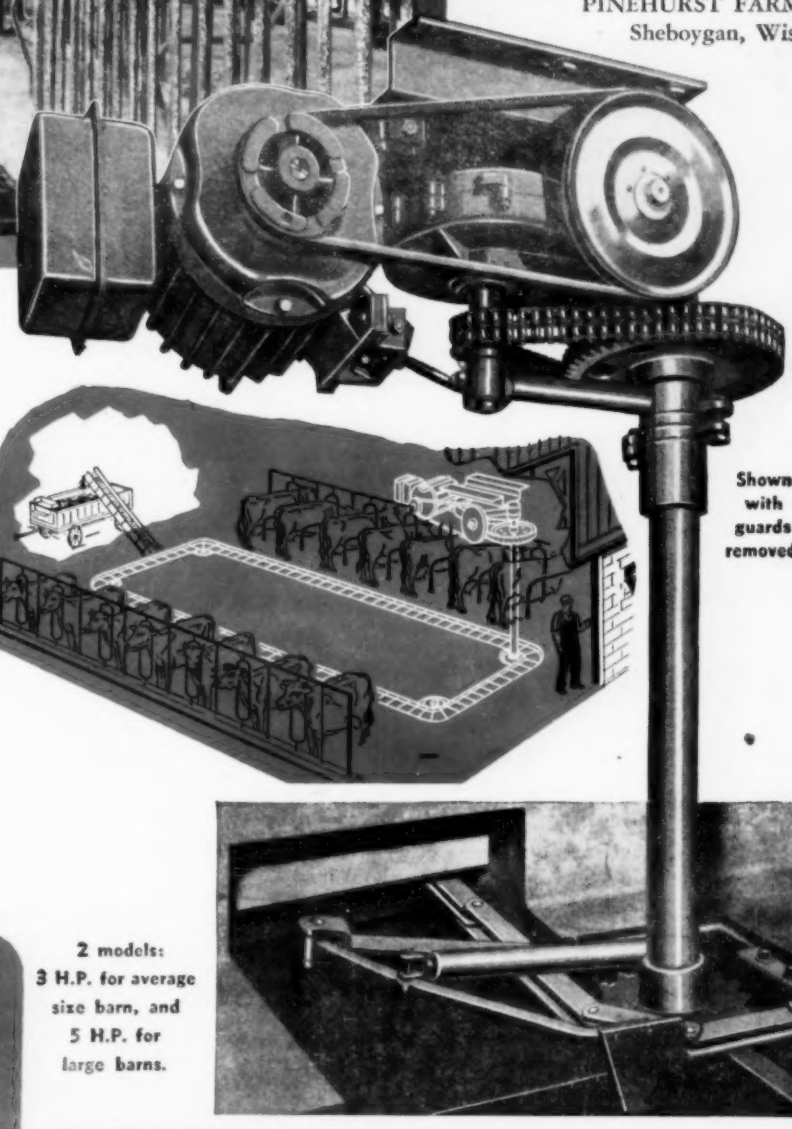
▲ ▲ ▲

IMPORTANT PAPERS, such as contracts, abstracts, unrecorded deeds, your will, notes and bonds may be lost if you keep them around the house. Some of these papers will cost money to replace, if they can be replaced. Government "E" bonds can be replaced, but it might take some time and cause inconvenience. A fireproof safe or vault is the only place for them.



"IN a barn the size of ours (about 375 ft. of chain), we were a little doubtful as to whether or not a barn cleaner could stand up under the strain. Now as time goes on, we're finding out that the Leach not only does a good job in the small barns, but does equally as well in a barn as big as ours."

PETER REISS BACHMANN, *Mgr.*
PINEHURST FARM
Sheboygan, Wis.



Shown with guards removed

THE Leach has the strongest chain on any barn cleaner. That's one reason why the 375-ft. Pinehurst installation (shown above) is turning in such good performance. Every part, every gear, every chain link is amply oversize to withstand the grueling punishment of barn cleaner operation. Install now and cash-in on the labor-and-time-saving benefits of a Leach Barn Cleaner. You'll have better-mixed manure, a cleaner barn with less odor, and a happier barn crew. And above all, a *Leach* will assure you *dependable,* trouble-free operation. Mail coupon for literature.

2 models: 3 H.P. for average size barn, and 5 H.P. for large barns.

Above is shown automatic paddle scraper.

LEACH
Silo
Unloader

Saves at least 200 man-hours a year . . . . protects you against silo-climbing accidents. Increases milk production . . . prevents silage waste . . . . handles frozen silage.

TURN THE SWITCH AND DOWN COMES YOUR SILAGE!

A Leach Silo Unloader will pay for itself in 1 to 2 years. Mail coupon for full descriptive information.

LEACH
Barn Cleaner
SINCE 1887

LEACH COMPANY, 415 S. Main Street Oshkosh, Wisconsin
Please send me the following as checked:
☐ Barn Cleaner Literature ☐ Silo Unloader Literature
☐ Name of nearest Leach Dealer

MY NAME .....
Post Office ..... State .....
Route ..... Box No. ..... Township .....

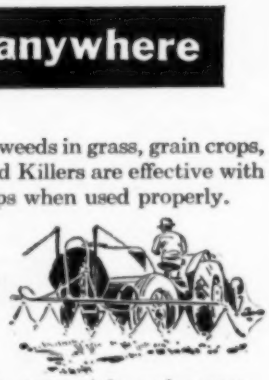
DET. PUBLIC LIBRARY

Rely on Du Pont

2,4-D Weed Killers

to destroy weeds anywhere

Selective: Control weeds in grass, grain crops, corn. Du Pont Weed Killers are effective with little danger to crops when used properly.



Adaptable to any equipment: For either low- or high-gallonage sprayers.

Effective anywhere: Kill many annuals, perennials and many woody plants. Du Pont Weed Killers meet all your needs.

For low-cost weed control: Just pick the right Du Pont Weed Killer for the weeds you want to kill, in crops or out. Ask your Du Pont dealer for exact recommendations.

Now! Kill Quack Grass and many other grass weeds with new Du Pont 60% Sodium TCA Weed Killer. Ask us about it.

GET GREATER RETURNS with these Insect Killers

MARLATE (Methoxychlor): New, quick acting, long lasting against flies, mosquitoes, lice, etc., yet has unusually low toxicity to warm-blooded animals. Also excellent on crops.

LEXONE (Benzene Hexachloride): Kills nits and adult lice in one application. Also destroys mange mites as well as flies, mosquitoes, ticks.

DEENATE DDT: Outstanding Du Pont formulation, gives long-lasting control. Also for lygus bugs, corn borer, other crop pests.

(All these products come as wettable powder)

SEE YOUR DEALER NOW *and be sure you have supplies when you need them. Ask him for free Du Pont booklets, or write to Du Pont, Grasselli Chemicals Dept., at one of the addresses below:*

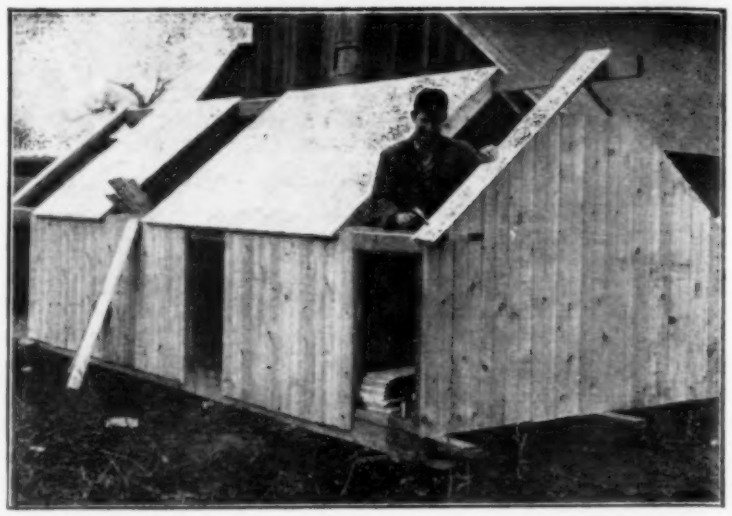
112 West Ferry St., St. Louis 7, Missouri
or
2101 Canalport Avenue, Chicago 8, Illinois
or
1207 Foshay Tower, Minneapolis 2, Minnesota
or
Wilmington 98, Delaware

DU PONT
REG. U. S. PAT. OFF.
BETTER THINGS FOR BETTER LIVING ... THROUGH CHEMISTRY

DU PONT CHEMICALS FOR THE FARM INCLUDE: ***Fungicides:*** **PARZATE* (Liquid and Dry), FERMATE*, ZERLATE*, Copper-A (Fixed Copper), SULFORON* and SULFORON*-X Wettable Sulfurs—*** ***Insecticides:*** **DEENATE* DDT, MARLATE* (Methoxychlor), LEXONE* (Benzene Hexachloride), KRENITE* Dinitro Spray—*** ***Weed Killers:*** **AMMATE*, 2,4-D, TCA and Dinitro Weed Killers—*** ***Also:*** **Du Pont Cotton Dusts, Du Pont Spreader Sticker, PARMONE* Fruit Drop Inhibitor and many others.**

*REG. U. S. PAT. OFF.

[On all chemicals always follow directions for application. Where warning or caution statements on use of the product are given, read them carefully.]



Spring Pigs will find a new home on the Glenn Patience farm in Guthrie county, Iowa. Glenn is building three-pen houses, each pen 7x8 feet and set on 4x6 skids. He uses 2-inch flooring

Raise More Early Pigs This Year

More March And April Litters Than Last Year—Little Change For May

LAST December, Iowa farmers told the Department of Agriculture that they planned to have 20 per cent more sows farrow spring litters in 1949 than in 1948.

Have they changed their minds since then?

Hog prices have dropped. But so has corn. The corn-hog ratio is still favorable. And heavy sows have been docked heavily enough so there wasn't any great temptation to sell them.

The Wallace-Homestead Poll made a survey of Iowa farm operators in late February, to see what hog-raising plans were at that time.

Little change was reported since December. The increase over last year of sows to farrow spring litters was 18 per cent. After allowing for survey error, that's practically the same as the 20 per cent in December.

But, altho the increase over last year for the whole season is predicted as 18 per cent, the increase for May is only 4 per cent.

When this survey was made, farmers expected to get the bulk of their increase in spring pigs in April or earlier. It looks as if everybody was aiming for that early market.

A farmer in Tama county apparently spoke for many when he said: "I'm having my pigs early this year, and a few more. I want to sell them in September or earlier. This is the last year for good prices, as I figure it."

This survey was made before Secretary Brannan announced that hog prices would be supported at 90 per cent of parity thru March, 1950. This price, around $16.50 at Chicago, may make some farmers feel that there is less danger of a price collapse next winter.

As a result, a few more sows may be kept for late litters. And some of the May pigs may not be pushed along quite so fast.

Hog prices this month will make a lot of difference in the number of sows held for late May and June litters. If corn is weak and hogs look good, more farmers may take a chance on late pigs.

Another sharp drop in hog prices could send sows to market and cut the number of late pigs.

Until about six weeks before the pigs are farrowed, a farmer can always change his mind. But, at present, it looks like an 18 to 20 per cent increase in sows farrowed over last year.

Whether this also means an 18 to 20 per cent increase in pigs saved will depend on the kind of spring weather we have from this time on.

Pasture Season Of Six Months

By planning now, you can stretch your pasture season to six months, says the University of Illinois.

Here's the system used by E. A. Bodman, Piatt county, Illinois, dairyman:

An extra three or four weeks of pasture in early spring were gained by using rye. By that time, Bodman's regular alfalfa-brome pasture was ready to use.

At corn-planting time, Bodman plowed up the rye, seeded sudan grass. This was pastured during July and August, when the alfalfa-brome was dry and poor in quality.

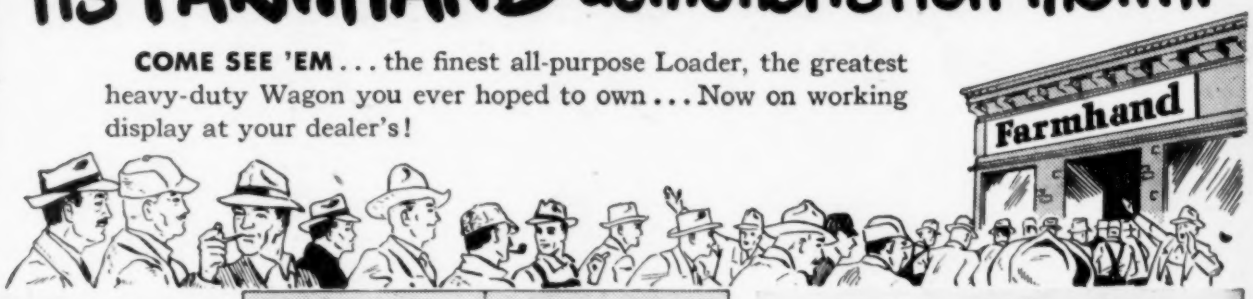
There's no danger from sudan grass poisoning if you let it grow at least a foot high before pasturing.

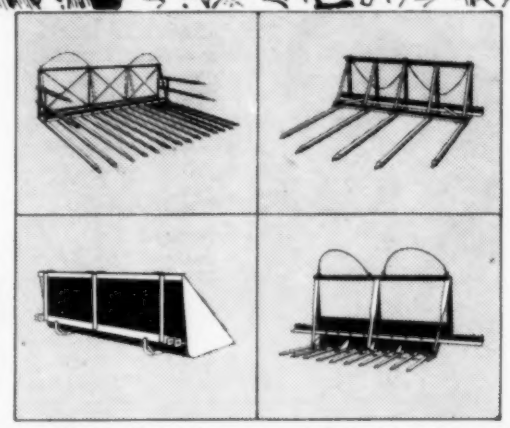
When the alfalfa-brome recovered with fall rains, Bodman turned his cows back into it. Then more rye was used for late fall pasture.

WHAT'S AHEAD FOR HOGS?

"It's FARMHAND demonstration month"

COME SEE 'EM . . . the finest all-purpose Loader, the greatest heavy-duty Wagon you ever hoped to own . . . Now on working display at your dealer's!





FARMHAND HYDRAULIC LOADER. You've heard about it . . . read about it . . . now, come watch it operate and try it yourself! It's the loader voted Number One Choice among farmers in an actual farm survey . . . the only loader with 3,000 lb. lift *and* 21-foot high reach *and* "Wrist-Action" leverage. You'll never realize how much work and time and labor costs this great FARMHAND Loader can save you until you see it in action . . . get the facts about it . . . learn the more than 50 jobs it can do on your farm all year around. Your FARMHAND Dealer is waiting to tell you everything you want to know about it at his special FARMHAND display this month. Visit his store . . . for sure!

FARMHAND LIFTING, LOADING, MOVING ATTACHMENTS. Your dealer will demonstrate how this complete assortment of FARMHAND Loader Attachments can speed the work and often replace whole crews of men at scores of tough farm jobs. Hay Baskets with Push-Off for one-man haying . . . Forage Forks for all-purpose lifting, loading and carrying . . . Snow Scoops for snow removal and handling corn, grain and silage . . . Manure Forks for easy, faster loading . . . Sand and Gravel Plates for construction, earth-moving and road building . . . V-Plow blades for heavy-duty plowing. This loader with its attachments is a whole line of farm implements in itself, the best investment you ever made in farming efficiency!

FARMHAND "90" WAGON. You won't believe it until you see how many exciting new features are packed into this rugged FARMHAND beauty. Full 90° turn, for one thing . . . sharp right and left angle turns in wagon's own length, with no tipping, skidding or backing up . . . and with constant 4-point support under load! Extensible Quick-Hitch Tongue, too, for coupling to tractor in seconds . . . *plus* adjustable reach . . . *plus* adjustable fixed-or-rocking bolster. New wider, lower construction for extra safety and stability. Wide enough to straddle corn rows. Follows normal turn of any row-crop tractor. Get the whole story . . . and get your order in . . . when you see your FARMHAND Dealer!

Find your FARMHAND dealer here! You're invited to the big month-long FARMHAND Show at his store!

Fun... Facts... Free Souvenirs!

IOWA	DEALER'S NAME	PHONE
Algona	Bradley Bros.	714
Atlantic	Sothman Motor Co.	650
Cresco	Culbert Implement Shop	81
Dallas Center	Shaffer Welding Shop	3251
Dysart	Cornfield Auto Co.	184
Early	Wadsley Implement Co.	17
Greene	Pooley Lumber Company	43 and 52
Greenfield	Ehrsam Implement Co.	361
Grundy Center	Heine Implement Co.	186
Hampton	Kreiner Bros. Motor & Implt. Co.	752
Holstein	Downs & Diersen Implements	38
Indianola	Snider-Ruble	173
Lenox	Barker Implement and Motor Co.	120
Manning	Knudsen Implement Co.	449
Marengo	Leo Kelly Co.	56
Mingo	Mingo Motor Co.	46
Monticello	Miller's	53
Mt. Pleasant	Holland C. Cornick	9206
Newton	George E. Lind Motor & Implements	15F41
Rolfe	Rolfe Implement Co.	103R2
Sac City	Sac County Implements	846
Sioux Rapids	Sundblad Farm Supply	3811
Swea City	Linde Implement Co.	64
Toledo	Beem Implement & Hardware	484
Vinton	Davis Implement Co.	94
Waverly	Waverly Implement Co.	64

Help us select new FARMHAND dealers!

Do you know an implement dealer in your district whom you'd recommend as a good man to sell FARMHAND Loaders and other FARMHAND products? We want only the best dealers —like those listed above—who treat their customers right . . . who provide quick, willing service . . . men who are helpful and progressive and friendly. If there isn't an authorized FARMHAND dealer near you, tell us the name and address of the man you'd like to buy your FARMHAND implements from. Thanks . . . and we'll let him know about your recommendation.

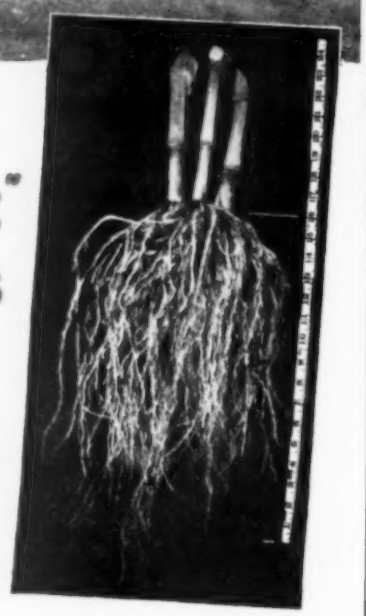
PAUL CORCORAN
FARMHAND Sales Manager

Farmhand

HYDRAULIC LOADER
"90" WAGON

Designed by farmers, built for farmers by
SUPERIOR SEPARATOR COMPANY, HOPKINS, MINNESOTA
Farm Machinery Specialists

CROW'S
"Deep Root"
Single Cross



Roots Average
Sixteen Inches Deep

Here's hybrid corn unlike any you have ever seen before. It offers you a new type of corn stalk for your corn crop. You can't pull it up and the wind can't blow it over. The roots average 16 inches deep. They penetrate even compacted soil. When you bend the stalks they spring right back. Plant Crow's "Deep Root" Single Cross and all of your corn will *stand and get into the wagon.*

Like all Crow's Hybrids, seed for this corn is Film-Coated for dependable protection in any soil. See Crow's dealer in your community — place an early order for your 1950 planting.

Send for CROW'S FREE Catalog and Profit Sharing Plan for 1950 Early Orders
MAIL POSTAL OR COUPON

CROW'S HYBRID CORN CO.
MILFORD, ILLINOIS and NEVADA, IOWA
World's Largest Producers of Single Cross Seed Corn

CROW'S HYBRID CORN COMPANY Dept. W.F.
Milford, Illinois

Send your FREE catalog and 1950 Early Order Offer on Crow's Hybrids.

Name _____
Address _____
R.F.D. _____ State _____

DETROIT PUBLIC LIBRARY

Do You Want Old-Age Insurance?

What It Means To Farmers To Be Brought Under "Social Security"

IF YOU'RE 50 or over, you've probably noticed some talk in the papers about "bringing farmers under the Social Security program."

Maybe you've talked to city workers who looked ahead to getting old-age annuities at 65. And you've wondered if farmers could get in on this.

Here are some questions and answers that may help clear up these and other points:

What are city workers covered by Social Security getting out of the program in the way of old-age annuities?

A man who, when he retires at 65, had been paid an average of $2,500 a year in wages for 20 years, would get an old-age annuity of $43 a month. His wife, if 65, would get an additional $21.50.

What does a city worker pay for this annuity?

Right now, he is paying 1 per cent on his wages. A man getting $2,500 a year would pay $25. His employer would pay another $25.

Is this the same thing as the public assistance "old-age pension"?

No. State and federal governments go together to make payments of the pension type to old people who are not able to pay their own way. That is what we used to call "poor relief." This Social Security old-age annuity is insurance, paid for, in part, by the person benefited.

If you own a farm, would you still get this Social Security annuity?

Yes. What you own doesn't matter. You've helped to pay for this annuity by your contributions. It is like an insurance annuity.

If farmers are brought into the Social Security system, how much would they have to pay?

A farmer, with a net income of $2,500 a year (as reported on his income tax return), would probably pay one and one-half times the rate a city worker pays. A farmer would pay 1½ per cent today, but this may increase to 2 per cent.

Why does a farmer pay more than a city worker?

A farmer is self-employed. A city worker puts in 1 per cent of his pay. His employer puts in 1 per cent. That makes a total of 2 per cent. But the farmer is both employer and employe.

What about the hired man? Does he get anything?

Yes. A hired man, under this program, would be like a city worker. He would contribute 1 per cent of his wages. His employer, the farmer, would contribute 1 per cent of the wages, too.

Won't this cost farmers a good deal, if they pay 1 per cent on a hired man's wages?

Add it up. What did you pay out for wages last year? Then take 1 per cent of that.

Does a farmer who hires labor get any advantages out of this act, or is it all expense?

Farmers who hire help in the east claim they are handicapped now because men don't like to work at jobs not covered by Social Security. They think they'll have a better choice of hired men if Social Security covers farm help.

Is this Social Security program any good to a farmer's family if the farmer doesn't live to be 65? Suppose he dies at 50?

If a farmer was 45 when he came under the program, averaged $2,500 a year for five years, died at 50, and left a widow and two children under 18, this would happen:

Each unmarried child under 18 would get $18.81 a month, and his wife would get $28.22 a month. These benefits would stop as children reached 18. The widow would get her $28.22 again at 65.

How long would a farmer have to pay before he was entitled to benefits?

The new law would spell this out, but probably a farmer would have to pay for a year and a half at least before he would be entitled to benefits.

What records would a farmer have to keep to report his income for Social Security purposes?

None except what he already uses to report his income tax.

How can farmers find out more about the proposals to bring farmers under the Social Security program?

Write to the editor of Wallaces' Farmer and Iowa Homestead, 1912 Grand Avenue, Des Moines, Iowa, for a copy of a leaflet prepared by the Agriculture Committee of the National Planning Association. This leaflet will be sent free on postcard request, as long as the limited supply lasts.

Remember that the law does not now cover farmers. This article and the NPA leaflet tell what is proposed, not what is provided by law today.

"My income tax came out just as I estimated!"

Buy it now! Be glad for years!

IT'S TIME YOU HAD a really fine, really modern refrigerator in your kitchen.

It's time to buy a new *General Electric Space Maker!*

Why not look at one today? You'll fall in love with it on the showroom floor! But what's *most* important, you'll *stay* in love with it through years and years of everyday use!

For General Electric Refrigerators are made to *keep you happy with your purchase.*

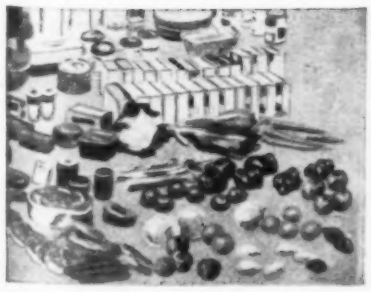
More than 2,000,000 have been in use ten years or longer—an unsurpassed record for dependable, efficient performance!

The *chief* reason, of course, is the famous General Electric sealed-in refrigerating system. Airtight and oiltight, this dependable system has never been excelled for efficient economical operation . . . year in, year out.

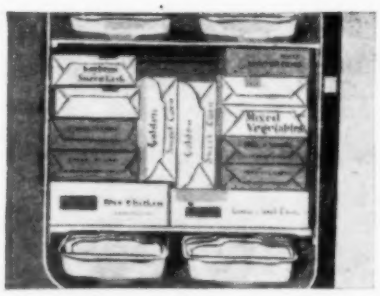
Make up your mind *now* that you won't be content with anything less. General Electric Company, Bridgeport 2, Conn.

The new 1949 General Electric Space Maker Refrigerator

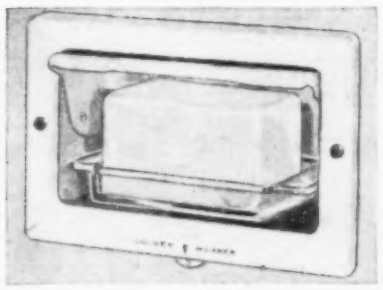
You'll bless these features . . . every single day!



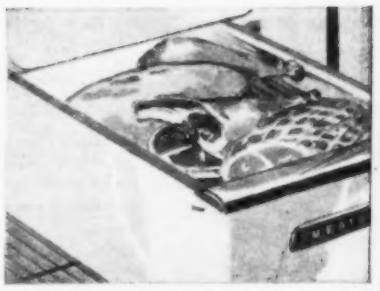
Holds more food! The G-E Space Maker gives you ½ more refrigerated food storage in the same kitchen floor space.



Ample frozen-food compartment! Holds 24 packages of frozen foods, plus four ice trays (20 cubes each).



Butter conditioner in door! Keeps butter at just the right temperature for easy, wasteless spreading.



Big meat drawer! Full 6 inches deep, will hold a standing roast. Keeps all meats in best condition.

More than 2 million G-E Refrigerators in use ten years or longer

GENERAL ELECTRIC

Want More Money

For Your Cream?

SURE YOU DO . . . AND HERE'S HOW YOU CAN GET IT

If you are skimming by hand . . . using an old or inefficient centrifugal separator . . . or the water dilution method . . . you can very likely increase your cream checks by 25% or more.

Here's how you can prove this for yourself before you buy:

1. Just use a De Laval Separator for two weeks on a free trial. We'll loan you the machine and show you how to use it.

2. See for yourself how much bigger your cream checks are with a De Laval Separator. See how it would pay for itself in extra cream produced.

Then if you are satisfied and like your bigger cream checks you can keep the De Laval Separator and make small, easy, weekly payments on it — in most cases the extra cream it gets for you will easily make the payments.

Do you want to make more money? Then ask your De Laval dealer *today* to arrange for your free trial.

EASY PAYMENTS FREE TRIAL

For Larger Herds— De Laval World's Standard Series—3 sizes

For Smaller Herds— De Laval Junior Series—4 sizes

De Laval

THE DE LAVAL SEPARATOR COMPANY

165 Broadway, New York 6
427 Randolph St., Chicago 6
61 Beale St., San Francisco 5

The De Laval Separator Co., Dept. 44R
165 Broadway, New York 6, N. Y.
Please send me printed matter on.

☐ De Laval World's Standard Series Separator

☐ De Laval Junior Series Separator

Name _____

Address _____

DETROIT PUBLIC LIBRARY

Better pastures mean more roughage. W. C. Grow, Guthrie county, Iowa, has Milking Shorthorns to use it. This cow produced 95.6 pounds of butterfat and 1,952 pounds of milk during January.

Good Pasture Means Bigger Profits

Alfalfa-Brome In Long-Term Rotations Provides More Feed, Boosts Corn Yield

By WALLY INMAN

"I WATCHED an experimental pasture improvement project near here. And I talked to at least a dozen men who agreed that the improved pasture made at least three times as much feed as the old blue grass. So I decided to try it," says Jay Steele, of Madison county, Iowa.

He has a 280-acre stock farm. Another reason he wanted to try the alfalfa-brome combination was the constant threat of a shortage of hay.

"If you get the alfalfa-brome started, you can always cut a little hay if the new seeding kills out," he explains.

Pasture improvement looks expensive this spring. Tho the cost can be prorated over four or five years, the bills have to be paid when you buy the lime, fertilizer and seed.

So the system Steele used helped handle the expense. As explained by Ralph Harvey, SCS unit conservationist, there are about four types of pasture to consider.

First is the land that is hilly, but can possibly stand one crop of corn every five or six years; or the blue grass pasture that has several slopes where corn can be grown one year.

That's what Steele had. So he grew a year of corn. He got 155 bushels per acre on 100 acres. That will pay for the pasture improvement. Too, where the blue grass sod is heavy, a year of corn helps from the seeding standpoint.

It is very hard to work spring-plowed blue grass sod well enough for good stands of legume and grass seed. So Steele fall plowed.

"When you fall plow a heavy blue grass sod on the contour, you seldom detect much erosion the first winter," Harvey says. "And you can work it down better, get a kill on the blue grass."

There are other pastures where you shouldn't grow corn, but you can fall plow the blue grass prior to reseeding the pasture.

A third category is that land which you shouldn't plow. Here you may have to disk and disk in order to get your new seed-bed.

And, finally, there are pastures where you can't take a machine. If they are that rough, grazing management is about the best you can do to improve them.

In Guthrie county, Iowa, W. C. Grow likes the system of one year of corn every five or six years. This gives you a chance to get a good seed-bed for reseeding, he feels.

"I think anything not too steep for machinery should be plowed about every six years, put to corn for one year, and reseeded," Grow says.

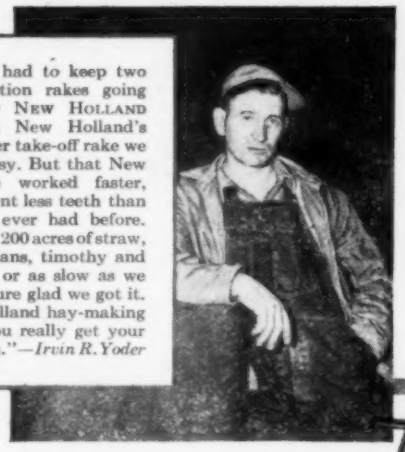
In addition to lime, Grow likes to use 100 pounds of 16-20-0 per acre on the oats and new seeding. Poorer soils may get more than that. He warns to seed the oats lightly.

If he intends to use the new seeding for hay for a year or two, he seeds 10 pounds of alfalfa and 8 of brome; if it will be pastured right away, he reverses that and seeds more brome than alfalfa.

"This old blue grass that has been down 15 or 20 years doesn't have much to it. You get a lot more out of alfalfa-brome. And a year of corn, where you can grow it, helps do a better job of reseeding. Besides, you can always use the corn," Grow says.

He is proud of the contest yield of 165.8 bushels per acre he made on a field of contoured corn on land that was once called Class VII land by the SCS. That's a pretty steep hill.

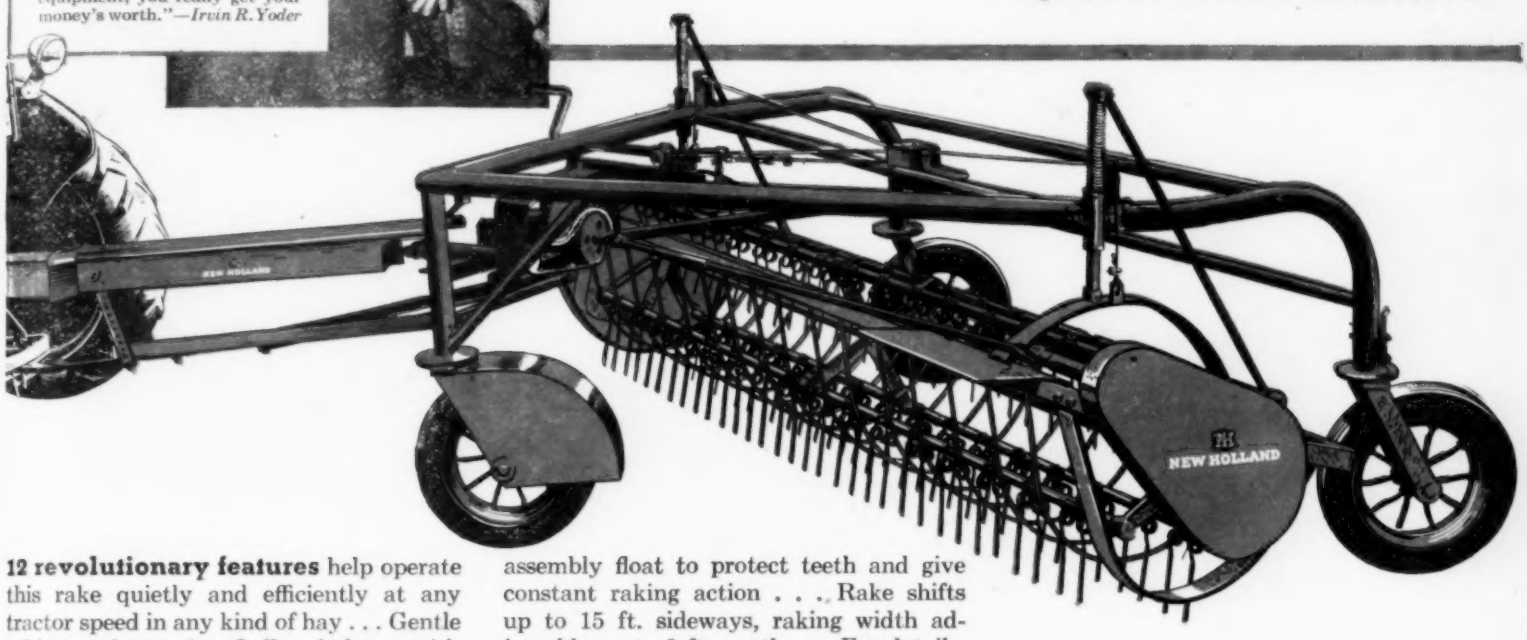
And that's about three average crops of corn from a corn, oats and clover rotation in hilly soil. So Steele and Grow got their corn with one year's work; they'll get an oat crop, and have three or four years of pasture worth three times as much as the old blue grass. They like the system.



"Last year I had to keep two old-style traction rakes going ahead of my NEW HOLLAND BALER. With New Holland's fast, new power take-off rake we kept ahead easy. But that New Holland rake worked faster, quieter and bent less teeth than any rake we ever had before. We raked over 200 acres of straw, alfalfa, soy beans, timothy and clover as fast or as slow as we wanted. I'm sure glad we got it. With New Holland hay-making equipment, you really get your money's worth."—*Irvin R. Yoder*

"One NEW HOLLAND power take-off rake does the work of two ordinary rakes!"

says Irvin Yoder, Belleville, Pa.



12 revolutionary features help operate this rake quietly and efficiently at any tractor speed in any kind of hay . . . Gentle raking action makes fluffy windrows with practically no leaf loss . . . Reel and rod assembly float to protect teeth and give constant raking action . . . Rake shifts up to 15 ft. sideways, raking width adjustable up to 9 ft. swath . . . For details, send the coupon below.

For sure, fast baling get the world's most popular baler. More New Holland Automatic Pick-up Balers are in use than any other because you get better hay. Operated by one man and tractor...Compressed bales or loosely packed ones. Bales sliced for easy feeding. Greater capacity per hour than any other baler.

Save labor, time and money lifting bales

A New Holland Bale Loader saves in every way. Hitched to your truck or wagon, it operates by chain drive from rear wheels . . . lines up bales, lifts them into elevator, carries them to adjustable discharge platform, in one quick action.

Certified Baler Twine

● The United States Testing Company, one of America's oldest and largest impartial testing laboratories, has awarded its Seal of Approval to New Holland Baler Twine, the only twine that measures up to its rigid standards of quality, strength, durability and rodent repellency.

New Holland Black Twine is the No. 1 choice everywhere. You won't find a stronger, easier-running, better-knotting twine at any price. New Holland Treated White Twine is also available. Both are packaged in tangle-proof, collapse-proof cartons. Order early to be sure of all you'll need.

See your dealer for information about other New Holland products: Hay Chopper-Ensilage Cutter • Cylinder Corn Sheller • Portable Tractor Saw • General-Purpose Mixer • Cylinder Husker-Sheller • Hydraulic Loader • Hammer Mill • Farm Belting

NEW HOLLAND

Farm Engineered Hay Machinery

NEW HOLLAND MACHINE COMPANY, Subsidiary of The Sperry Corporation

NEW HOLLAND, PA.
MINNEAPOLIS
DES MOINES KANSAS CITY
TORONTO

Free

Fully illustrated catalogs showing New Holland Haying Equipment in detail. Please check type equipment in which you're interested and mail coupon today!

New Holland Machine Co., 1803 Beaver St., New Holland, Pa.

Please send me catalogs checked:
☐ Pick-up Baler ☐ Twine ☐ Bale Loader ☐ Rake.

*Name*_____

*Address*_____

*State*_____

DETROIT PUBLIC LIBRARY

Dearborn
FARM EQUIPMENT

These and many more
engineered for the Ford Tractor

Whether you already own a Ford Tractor or are thinking about buying one, it will pay you to learn more about the many Dearborn Implements, like the two shown below, that can do so much to save you extra work and make you extra money.

Lift-Type Dearborn Tandem Disc Harrow

Now, . . . a tandem disc that you can lift and lower by Ford Tractor Hydraulic Touch Control! 10" ground clearance when raised permits fast road travel, protects against blade damage. You can make short turns at field ends, saving time and fuel, and protect grassed waterways . . . due to easy Touch Control lifting.

Lift-Type Dearborn Bush and Bog Harrow

For heavy soil, chopping trash, discing cover crops, clearing new land. Notched, sharp-cutting blades in reversible gangs throw dirt out or in. Gangs tilt up or down in middle for bedding or ditching. Lifts, lowers, by Ford Tractor Hydraulic Touch Control for turning, backing and fast transport.

Ford
TRACTOR

SEE YOUR DEALER

Your Ford Tractor and Dearborn Farm Equipment dealer has a genuine interest in serving you well. It will pay you to know him better.

DEARBORN MOTORS CORPORATION
Detroit 3, Michigan

COPYRIGHT 1949, DEARBORN MOTORS CORPORATION

Ford Farming MEANS LESS WORK... MORE INCOME PER ACRE

Quadruplet lambs don't show up every day—much less a total of seven lambs from two ewes. The ewe at left dropped four lambs this spring on Edward Wood farm, in Warren county, Iowa. Ewe at right dropped three. Bottle-feeding didn't save the extras.

In The Legislature

Assembly Argues Farm Bills

Money For Farm Bureau, County Fairs, Soil Conservation Work To Be Affected

THE bill in the Iowa legislature to increase county appropriations to farm aid associations (Farm Bureau) has been reported out for debate. But not before agriculture committee No. 1 had recommended a big cut in the extra money originally asked.

At the present time, county aid is $3,000 per year in counties of less than 25,000 population. In counties of more than 25,000, the aid limit is $5,000. (Pottawattamie gets $7,000 because court is held in two cities.)

The bill as it went to committee provided that appropriations be increased to $5,000 in all counties, plus an extra $1,000 for each three extension assistants — home economist, youth assistant or soils man.

The 33-member house agriculture committee No. 1 turned thumbs down on the increase to a flat $5,000 per year in all counties. Old rates were approved. Only the $1,000 increases for extra help were recommended to be kept in the bill.

A special provision of the bill requires that county funds appropriated shall be kept in a separate bank account. The committee added an amendment requiring that the itemized account of how county money was spent be published in two papers of the county.

Representative D. A. Donohue, Tipton real estate man, withdrew his anti-Farm Bureau county aid bill in the face of a certain recommendation for death by indefinite postponement from agriculture committee No. 1.

This action keeps alive Donohue's opportunity to press the contents of his bill by offering an amendment to the increased aid bill when it comes up. Donohue's bill proposed disqualifying farm aid associations for tax aid, if they engage directly or indirectly in business enterprises.

The bill (H. F. 290), to eliminate the requirement of a written notice before November 1 to terminate a farm lease the following March 1, reached the house calendar thru a recommendation for passage by judiciary committee No. 2. Amendments are expected to be filed, but none was suggested by the committee.

The house bill (H. F. 210), to collect the cent-a-pound butterfat tax thruout the month of June instead of during the first 15 days in June, got to the house calendar once with approval of the ways and means committee. It then was sent back to committee.

H. F. 294, to appropriate $1,020,000 a year for state soil conservation work, came out of conservation committee with recommendation for passage.

Hog cholera serum was sipped from a bottle by Carl J. Stephens, attorney for the Farm Bureau, at a public hearing before a house committee. Stephens spoke for a bill to permit others besides pharmacists to sell cholera virus. The supreme court has held that present laws allow only pharmacists to sell it.

Stephens said cholera virus was not dangerous to people, and that after 40 years of selling virus by laymen, there is less hog cholera than at any other time.

Gov. William S. Beardsley has recommended that the present 75 per cent income tax rate be continued on the condition that the sales tax be removed from food. The income tax rates will go back to the higher rates and lower exemptions next year if the legislature takes no action.

STANDARD

FARM NEWS-GRAPHIC

A picture review of successful farming brought to you by the Standard Oil Company

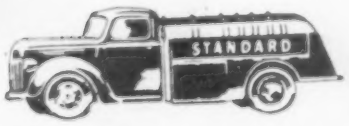
Homemade Cart Cuts Feeding Time in Half. Rolland Klaassen watches farmhand David Thiessen operate labor-saving feed cart on the Klaassen farm in Butler Co., Kansas. The cart—mounted on old auto wheels without tires—runs smoothly on the metal-topped sides of the feed bunk, which stretches from silo to grain shed. Feeding stock stand on concrete slabs along the bunker walls—which cuts down the mud. Owner Klaassen, always practical, keeps his 3 tractors in trim with Iso-Vis Motor Oil . . . says, "long-lasting Iso-Vis lowers my operating costs, cuts my repair bills by preventing breakdowns."

Doubles Corn and Small Grain Yield—that's the record of Edd Goerger, Barney, N. D., shown here with his self-propelled combine. Edd's yield started to increase as soon as he began soil conservation 7 years ago. Edd gets maximum service from machinery, too; says "I use Red Crown Gas for more power and lower operating costs."

Two Engines Equal 57 Years . . . that's the combined age of pump engines Victor Hessler uses to irrigate his land near Sterling, Colorado. One is an old tractor engine (above), the other is from a truck. Both are kept in shape by good maintenance and Permalube Motor Oil.

Old Enough to Vote . . . This tractor has served Phil Hessler, Victor's brother and neighbor, for 21 years. Phil has equipped it with huge tires and various special devices. "And I use Red Crown Gasoline," says Phil. "It's uniform, full of power and makes starting easy!"

All-Time Record was set at 1948 International Livestock Exposition by entrants of Otis Carter, Eldorado, Illinois. Mr. Carter entered 7 Shorthorns, won 13 awards including 6 first places . . . the most firsts with the fewest entries in the International's history. Here Mr. Carter (right), a Standard Oil customer for 30 years, and his son Stanley pose with Sunset Bounce, Reserve Grand Champion at the International and Grand Champion at the Illinois State Fair.



Win $5.00. Send your farm pictures with descriptions, to Standard Oil Farm Photos, 910 S. Michigan Ave., Chicago, Illinois. For each picture that we use in the News-Graphic we'll pay you $5.00. Thanks a lot!

Your Standard Oil Man

1000 Bushel

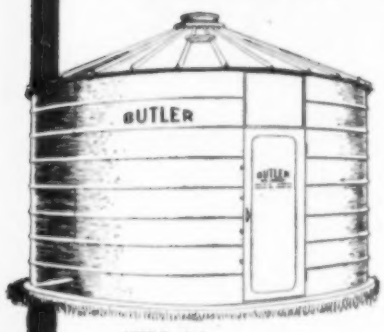
THANKS

To U.S.D.A.,* U.S.D.C.,** and THE STEEL INDUSTRY

You Can Again Get

Steel

GRAIN BINS



2200 Bushel

Grain prices have dropped considerably below the price support loan rate.

A major factor in this reduction of grain prices has been the lack of on-the-farm grain storage facilities. You know the story about grain bins—very few have been available for more than eight years.

Several weeks ago the U. S. Department of Agriculture started working on a plan to make critical galvanized steel available for the manufacture of grain bins. By working together with the U. S. Department of Commerce, and the steel industry, they got the job done.

The steel has been allocated. Butler Galvanized Steel Grain Bins are being made right now. Place your order with your dealer now for early delivery.

Butler Galvanized Steel Grain Bins have been used on American farms for over forty years. Tens of thousands have proved their long-life dependability and economy.

Don't miss this opportunity to make a permanent improvement on your farm, and at the same time, have a part in stabilizing grain prices.

*United States Department of Agriculture
**United States Department of Commerce

BUTLER STEEL

GRAIN BINS

3276 Bushel

BUTLER MANUFACTURING COMPANY

Kansas City, Mo. Galesburg, Ill. Richmond, Calif. Minneapolis, Minn.

Send Name of Nearest Dealer and Full Information on:

1000 Bu.
2200 Bu.
3276 Bu.
Butler Grain Bins

Address Inquiries to:
7451 East 13th St., Kansas City 3, Mo.
951 Sixth Ave., S.E., Minneapolis 14, Minn.

NAME _____
P. O. _____ R. F. D. _____
STATE _____

Protect Your Corn From Borers

Chemicals Are Surest Way To Avoid Serious Damage, Say Entomologists

ACTUALLY, you start your corn borer battle as soon as you are able to get in and work the field. You plow corn stalks under clean and deep; you probably avoid very early planting; maybe you chopped up all the corn stalks on your oat ground.

But you should still be alert for borers. Much oats will be planted on disked stalks. Borers there can emerge whenever they like.

Chemicals are your final "ace in the hole" in protecting your corn from the European corn borer.

Harold Gunderson and Earle Raun, Iowa State College extension entomologists, have written a leaflet that gives the 1949 recommendations for chemical control of borers.

You'll probably want to get a copy of this leaflet (see box at bottom of this page). But here, briefly, is what it suggests:

First-brood borers head for the tallest, most vigorous corn. Borers die easily in small, short corn. So don't plan on treating corn that is less than an average of 35 inches extended height. That means measuring the longest leaf.

Start watching your earliest corn when it is 25 inches high. Examine groups of 10 plants in widely separated parts of the field. If you find 15 egg masses on 30 plants (50 per 100), start treatment.

DDT and Ryania, Gunderson and Raun say, are two materials which have given good results.

For ground spraying, they suggest using three nozzles per row—one above the plant and a double between-the-row nozzle dropped below the top of the corn, spraying plants on each side of the outlets.

They suggest these rates of application (per acre):

With a DDT emulsion from aircraft, 1 to 1½ pounds actual DDT in 2 to 2½ gallons of water; with an emulsion applied by ground equipment, the same amount of DDT in 5 to 15 gallons of water; with DDT wettable powder and collodial suspensions, 1 pound of actual DDT plus a wetting agent in 30 to 50 gallons of water; with a 5 per cent dust, use 1½ to 1¾ pounds of actual DDT.

Check your results. If you can still find lots of borer egg masses (15 per 30 plants), treat again 7 to 10 days after the first application.

You won't get every borer. Don't count on that. But, under average conditions, with spraying properly timed and properly done, you should get from 3 to 30 bushels more corn per acre.

Still Have Time To Seal Corn

To the Editor: Is it too late to get a loan or sign a purchase agreement?—O. O., Lyon County, Iowa.

You have until June 30 to seal your corn or sign a purchase agreement. If you seal your corn, you pay 3 per cent interest on the loan. The government agrees to take the corn as full payment.

Under the purchase agreement, you get the loan price when your corn is delivered. But you have to deliver No. 3 corn or better.

Order These Leaflets

You'll want to read Pamphlets No. 139 and No. 140, published by Iowa State College. And you can get them, free, just by sending a postcard to Wallaces' Farmer and Iowa Homestead.

CHEMICAL CONTROL OF CORN BORERS
(Pamphlet No. 139)

In this well-illustrated leaflet, Harold Gunderson and Earle Raun bring you up to date on the 1949 Iowa recommendations for fighting borers. These men tell you when to spray, what to use, how to do it, and precautions to take.

CHEMICAL WEED CONTROL
(Pamphlet No. 140)

The whole field of chemical weed killers is discussed. The chemicals now available and their strong points are listed. Then A. L. Bakke, E. P. Sylwester and D. W. Staniforth give latest rules for using weed killers in various crops and on various weeds. Types of sprayers are discussed. This is a valuable bulletin.

Here's the latest information on corn borer and weed control, boiled down so you can use and understand it. Send a postcard, asking for these leaflets, to

WALLACES' FARMER AND IOWA HOMESTEAD
Des Moines 14, Iowa

LEVERAGE gives a POWER "PLUS"

to the new

FERGUSON TRACTOR

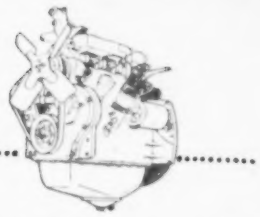
A tractor's got to have power to spare. That's a must. But power to do the heavy work is not a matter of great size, overweight, or clumsy operation. How *much*, and how *efficiently*, power is applied to the implement . . . that's what counts!

The specially-designed overhead-valve engine of the New Ferguson Tractor, combined with the *one* and *only* Ferguson System of Linkage and Hydraulic Control, provides adequate power *fully utilized*. Natural forces add leverage to *working* power.

With 3-point attachment of Ferguson Implements, tractor and implement operate as *one* single unit, like a self-propelled machine. Traction increases as required by the pull. Finger Tip and Automatic Control raises, lowers and carries the implement, and maintains soil depth in operation!

Power *properly* managed for the wide range of work is the power-principle of the New Ferguson. Power combined with leverage! Whether you judge tractor performance by how *easy* it makes your work, the *time saved*, or by how much it lowers your *cost of production*, ask your friendly Ferguson dealer for a demonstration. You'll find the new Ferguson is the modern farm machine for *you*.

It's the FERGUSON SYSTEM that makes the difference!

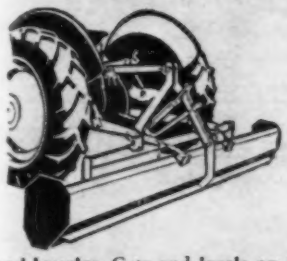


POWER THAT SPELLS

L·O·W·E·R C·O·S·T

This Continental overhead-valve engine has the stamina for many different jobs on your farm. Its reserve power often lets you use third gear when you'd expect to need second. Rugged, heavy-duty construction—built to "take it"!

A few of the many FERGUSON IMPLEMENTS for *Finger Tip Farming*



Land Leveler. Cuts and levels an 8' width. Depth of cut, loading and spreading regulated by Finger Tip Control.

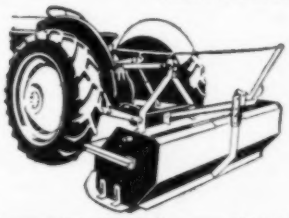
Rigid-Tine Cultivator. One-minute attachment. Easy adjustment of tines and sweeps. 86" frame width, 11 tines, ample clearance.

Grader and Terracer. For earth moving and soil conservation work. 72" blade angles to right or left. Tilts 22½ or 45 degrees. Blade 12½" high, 4" removable cutting edge.

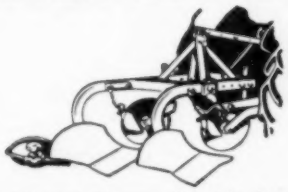
Mower. 5-minute attachment. 6' or 7' cut with automatic safety release "break back" and Finger Tip Control of cutter bar for backing and clearing. "Live" rubber bushings and Ferguson Linkage give smooth, quiet operation.

Tandem Disc Harrow eliminates ridging, overdiscing headlands and mounding on turns. Gangs regulated by Ferguson Finger Tip Control.

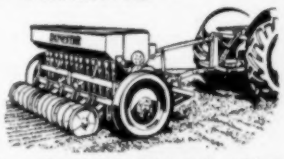
FERGUSON IMPLEMENTS FOR FINGER TIP FARMING



Towner Trip Dump Scraper. 5½' wide, 24" deep, holds 22 cu. ft. Depth of bite, lifting or spreading action governed by Finger Tip Hydraulic Control.



Moldboard Plows—Provide depth control without levers, springs or wheels. 10", 12" or 14" bases for two-bottom plows with variety of moldboards and shares for all types of soil. Single bottom 16" available.



Dempster Grain Drill with 13" x 7" adjustable internal run feed, meters any size seed from clover to soybeans. Finger Tip Hydraulic Depth Control. 8-bushel seed box; feeding mechanism sprocket-driven from ground wheels. Disc openers and drag chain or press wheel coverers.

BERRY BROS. INC.

1658 East Euclid, Highland Park Station, Des Moines, Iowa

IOWA STATE DISTRIBUTOR

Dealers: A few choice territories still open; write for more information.

THE NEW FERGUSON TRACTOR

Copyright 1949 by Harry Ferguson, Inc.

AND FERGUSON SYSTEM IMPLEMENTS

It Takes a CASE CENTENNIAL to Plow Like This

● Look at the Case Centennial plow in action. Watch the way it tucks under a heavy cover crop, rank weed growth, or bushy trash. Notice how the Case high-speed plow bottoms crumble the soil just right to preserve its structure while making a firm rootbed with a minimum of lumps or pockets.

When you see this Centennial plow in the field, you'll marvel how such a big, heavy-duty implement, doing such thorough tillage, can pull so light. Notice the big rudder-action rear wheel. It has a large part in keeping the furrows uniform and at the same time preventing landside friction from stealing tractor power.

Other features which make the Centennial tractor plow outstanding include extra clearance under beams, between bottoms and behind the shins . . . a high, quick lift . . . extra strength in beams and axles . . . handy levers and easy adjustments. It all adds up to easier and better plowing, longer life, and capacity to master the toughest moldboard plowing. The Centennial is built in two to five-bottom sizes, to fit all sizes of tractors.

Look to this sign for first-class dealer service and the finest of farm machines. Write for catalog and folders. Mention size of tractor to fit your farm, also any plow, harrow, cultivator, planter or grain drill, Slicer-Baler, rake or mower, combine, field forage harvester, or other farm machine you need. J. I. Case Co., Dept. C-80 Racine, Wis.

Plowing or Disking
IT PAYS TO FARM WITH CASE

You can cross grassed waterways without cutting, make turns with gangs straight—all without stopping, slowing, or backing. Case Soil Conservation disk harrows angle and straighten on-the-go, at a pull of trip rope from tractor seat. Built in many sizes of tandem type, as shown, and in single wide-cut type with fold-over sections for passing narrow gates. Case also builds heavy-duty cover-crop harrows, offset and Brushland harrows.

First Spring litter on Burt Baer farm, in Polk county, Iowa, is warmed by heat bulb. Because of low corn price, more pigs (150) than ever before will farrow on Baer's farm this year.

How Will AAA Figure Corn Bases?

Good Land Use Favored Over History In Setting Future Corn Acreage Allotments

IF YOU have to have a corn acreage base fixed for your farm, how do you want the number of acres determined?

This question might have to be answered sooner than you think. The corn supply is up and the market is down. The new farm price support law provides for acreage allotments under certain conditions.

County AAA men in Iowa are already debating the problems connected with fixing a corn acreage base for each farm.

At a recent Des Moines meeting, a panel of seven county chairmen aired their views before the state-wide group. Clifford Chapman, of Cherokee county, as leader of the panel, named two methods for setting acreage allotments:

1. History—Under this method, your average corn acreage for years back would be figured. That would be your base. Then, if your base was 100 acres, and a 10 per cent cut in corn acres was asked, your allotment would be 90 acres.

2. Proper Land Use—Under this method, your corn base would be determined by estimates of what your land can stand.

If your farm was good enough to stand a four-year rotation with two years of corn, then one-half of the crop land might be included in the corn base.

If your land would stand only one year of corn in three or four years, then one-third or one-fourth of the crop land might be included in the corn allotment.

"History is not the right basis," said Raymond Strain, of Union county, starting the discussion. "You've got to have soil conservation tied in."

Strain was backed up strongly by Lester Coons, of Pottawattamie county. "We used to set corn acres by history, but we've seen the light. We should use land capability to a greater extent."

No one actually argued against adopting good land use instead of the corn grower's past habits for setting corn acreages. But some saw difficulties.

"Can you get the level-land farmer to put one-third of his crop land in conservation crops and go to livestock?" asked Chapman. One man from a level-land county thought they could.

"If farmers get good support prices, they will be willing to cut corn acres," said Ralph Woods, of Greene county.

Some doubt was expressed that the law as it stands would permit anything but the history basis. That brought up the point about how far they should go back in finding the average corn acres.

"We should not go back too far," said Henry Von Muenster, of Cedar county. He thought the war years should be left out. Others would skip '47, '48 and '49, too.

As to who should come to see you about your corn acreage base, the township AAA committeeman proved very popular.

"Leave it to the township AAA committeeman because he knows your farm," said Elmer Guenther, of Floyd county. Several others agreed.

"Allotments have worked," said Anton Rasmussen of Hancock county. He added that some farmers thought allotments should have been in effect this year.

"When corn acreage is reduced," said Coons, "it should be compulsory that acres taken out of corn should be put in conservation crops." He favored making all payments on grass acres, none on grain acres.

"We have never had a surplus of grass crops," Coons added.

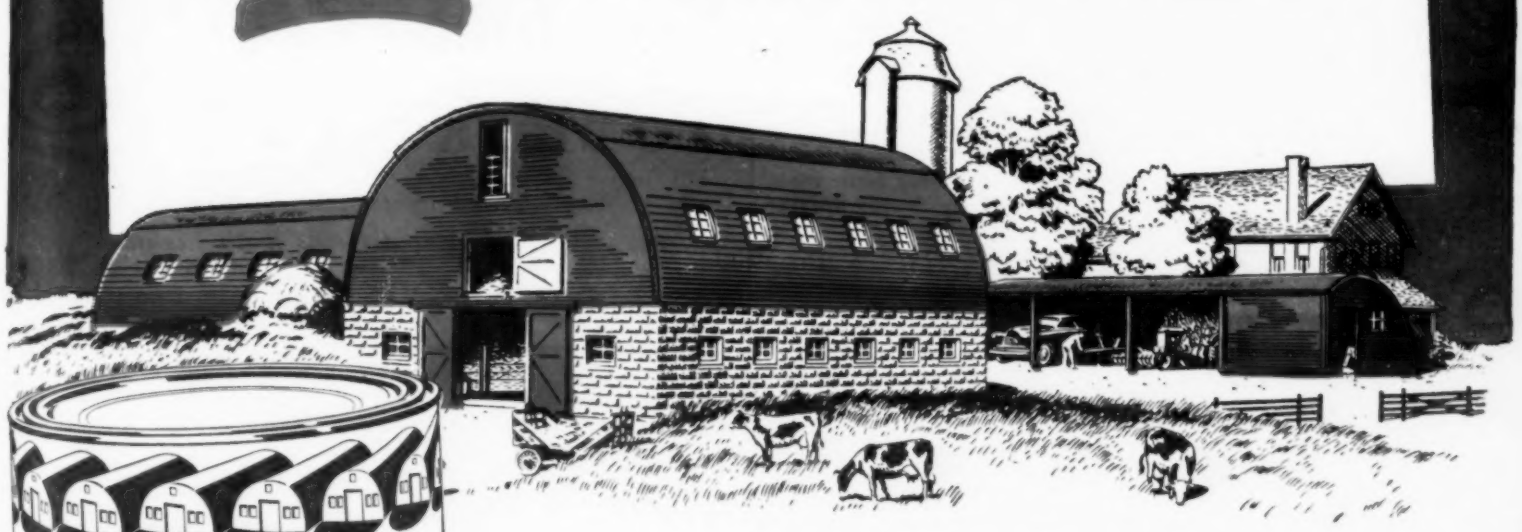
NOW...

QUONSET FARM BUILDINGS

look even better . . . last even longer with

STRAN-STEEL

Quon-Kote



. . . the new one-coat paint developed especially for QUONSETS

Here is a new idea in paint! Now the galvanized steel sheathing of new Stran-Steel Quonsets can be painted immediately. Just one coat of Stran-Steel Quon-Kote does the job—makes Quonsets even more attractive, makes them last even longer. Quon-Kote combines chemically with the zinc of new galvanized steel to form a tight protective bond. It is available in five colors—white, cream, red, green and gray.

Quon-Kote is the answer to the need for better appearance and better protection of metal buildings. Yes, Quon-Kote adds extra value to the strength, economy and fast erection of Quonset precision arch-rib construction. Quonsets can now be, not only the most useful, but also the best looking buildings on your farm!

Ask your dealer for the Quonset-with-Quon-Kote facts—or write for his name and address.

Stran-Steel and Quonset Reg. U.S. Pat. Off.

Easy to apply

Stran-Steel Quon-Kote goes on as easily as conventional paint, saves you the cost and the labor of the prime coat always before necessary on unweathered galvanized steel. Quon-Kote is made exclusively for Great Lakes Steel Corporation by The Sherwin-Williams Co.

GREAT LAKES STEEL CORPORATION

Stran-Steel Division • Dept. 18 • Penobscot Building • Detroit 26, Mich.

UNIT OF NATIONAL STEEL CORPORATION

YOU NAIL TO STRAN STEEL FRAMING

"SPEEDY SPRAYER BEST BY TEST"

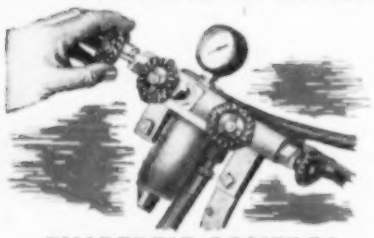
Says, Ole Taxted
Eagle Grove, Iowa

AMERICA'S FIRST TESTED and PROVED SPRAYER!

24 FOOT BOOM **$230.00** FACTORY F.O.B.

America's first all-aluminum crash-proof, rust-proof sprayer . . . thirty years of manufacturing know-how, built into every SPEEDY SPRAYER.

"NEVER A MINUTE'S TROUBLE"



FINGERTIP CONTROL FROM THE MANIFOLD

Selective High or Low Pressure-Gallonage-Speed

"I have complete control of all sections of the spray booms at my fingertips. I don't have to leave the tractor seat at any time . . . and the easy-to-clean filter screen is built right into the manifold."

Pressure gauge assures accurate CONTROLLED SPRAYING at all times. Self regulating pressure unit assures constant measured penetrating spray.

"Dutch McCallum of Eagle Grove did me a big favor when he sold me my Speedy Sprayer last year.

"The Double-action Hinge allows the booms to strike and swing with any obstruction that might be encountered in the field. There are no costly repairs with the new Speedy Double-action Hinge."

OPEN . . . The balanced hinge bearings hold booms rigid when open . . . No wobble or end play.

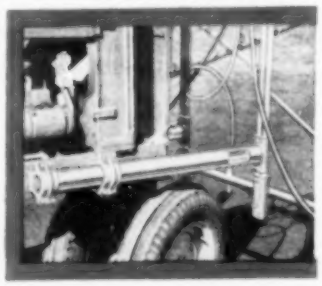
CLOSED . . . When in normal spraying position, spray booms remain rigid.

SPEEDY'S HANDBOOM attaches to manifold for spraying livestock, orchards, poultry houses, etc. Buy SPEEDY and you buy the best.

. . . ATTACHMENTS FOR YOUR OWN TRACTOR

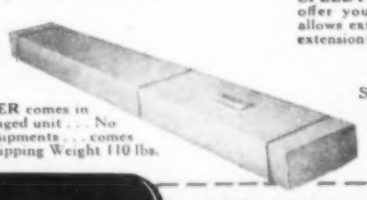
The new SPEEDY SPRAYER fits all tractors by simply attaching two adjustable frame mounts, then merely inserting and tightening four bolts.

SPEEDY ALL-ANGLE ADAPTOR LUGS provide constant penetrating spray for crops at all growing stages. Lugs can be adjusted for any angle spray . . . for full under-leaf, over-leaf or direct-down pre-emergence coverage.



SPEEDY ROW CROP EXTENSIONS offer you double protection. Hinge allows extension to swing with object, extension then returns to normal position.

COMPLETE PACKAGED UNIT



SPEEDY SPRAYER comes in one complete packaged unit . . . No lost or separate shipments . . . comes ready to attach. Shipping Weight 110 lbs.

See one of our 3000 SPEEDY SPRAYER dealers in your vicinity or **SEND COUPON TODAY** for complete details and literature.

SPEEDY SPRAYER

SPEEDY SALES COMPANY, Dept. WF-39
Corn Exchange Bldg., Minneapolis 15, Minnesota

Please send me full descriptive literature.

Name.....

R.R. No.....

City..... State.....

THIRTY YEARS OF MANUFACTURING "KNOW HOW!"

DETROIT PUBLIC LIBRARY

Since the spring of 1947, Armen Miller, of Greene county, Iowa, has used electric lights over his hog feeders at night. With lights, he says that his pigs consume more feed and make faster gains.

New Ideas Get Hogs To Market Fast

This Farmer Likes To Try New Methods; Gets Rapid Gains With Lighted Feeders

ONE evening, in the spring of 1947, Armen Miller, young Greene county, Iowa, farmer, forgot to turn off the light in his hog lot. That night, he heard his pigs rattling the self-feeder lids so much he decided to try a new idea.

Ever since then, for both his spring and fall pigs, he has used lights over his self-feeders. One of the jobs of a meat producer is to get lots of feed into his livestock. Lights seem to help Miller do that.

He explains that he has made no scientific check on the results—used no control lots. "But I am sure they eat more and make faster gains," he says.

"Lighted self-feeders are valuable during the hot summer weather. If you watch a bunch of hogs, you'll notice that they eat about two or three hours a day. Maybe they will eat a little in the morning. Then they lie in the shade until it cools off in the evening.

"Lights on the feeders at night get them to eat a lot more—and that makes for faster gains," he points out.

In this particular case, the proof of the pudding might be the weight of the pigs when they went to market. Armen Miller has that, too. His 1948 spring pigs were marketed at five months and three days. They averaged 202.5 pounds per head.

Miller says that you don't need to have a lot of light. He uses two self-feeders like the one shown in the picture at the top of the page, placed end to end. He uses a 75-watt bulb at each end.

He is also insistent that water always be available close to the feeders. Pigs have the habit of eating a little and then drinking a little. Plenty of fresh water is half the battle.

Last summer, Miller also tried slopping his hogs during the hot weather. His figures show that the slop got about one extra feed a day into the hogs, which were eating less because of the heat.

He used ground corn and oats in a thin slop twice a day. He gave the hogs all they would clean up in 20 minutes.

The pigs in the picture, part of 70 late fall pigs, were not three months old when the picture was taken. Miller is trying something else with them.

"I'd heard the fellows talk about giving each pig a shot of corn syrup the first day. So, on half the pigs in each litter I did that, and marked them. I'm going to weigh the pigs separately when I sell them," he says.

"Whether they grow any faster or not, I noticed that the shot of syrup they received seemed to give them more energy when they were little," he adds.

This spring, his pigs will run on an alfalfa pasture that joins a shed. He will use the shed for shelter in the summer and put lights over the self-feeders in the shed.

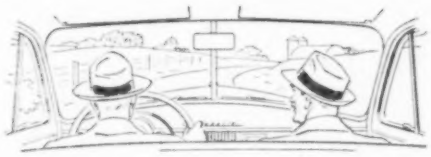
"I have never really tried using lights on self-feeders with pigs on legume pasture," he says. "I don't know if they will help as much or not."

Feeders should be kept inside during the winter months, Miller thinks. So should waterers. His hogs had only an outside waterer. Then a waterer was added inside the hog shed, and consumption jumped almost a gallon per pig per day this winter.

Farmers expect more from a car... that's why they think Chevrolet's *the most beautiful BUY of all!*

Farmers know that Chevrolet has plenty of power for the tough back roads

Driving conditions can get pretty rugged in the country, but no road's too rough or rutted for the smooth power of Chevrolet's Valve-In-Head Thrift-master engine. This sturdy power unit has proved its dependability, efficiency and durability on the "world's toughest proving ground," as well as in millions of miles of actual farm use.



Farmers like the all-around view they get from Chevrolet's wide safety plate glass

The new Chevrolet has curved windshield, thinner windshield pillars and 30% more window area all around. You can really see where you're going and what's going on in every direction. You get greater driving enjoyment—you get greater driving safety from Chevrolet's greater visibility.

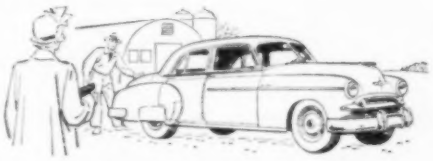
CHEVROLET

There are no two ways about it—a car has to be good to measure up to a farmer's standards! For on the farm, value is what counts... and value is what Chevrolet delivers. Chevrolet gives the farmer more of everything he wants in a car—long-lasting beauty and styling; powerful, tireless engine performance; ease of handling and riding comfort; thrifty operation and upkeep—at the lowest cost. For rural America's money, Chevrolet is *the most beautiful buy of all!*

CHEVROLET MOTOR DIVISION, *General Motors Corporation*, DETROIT 2, MICHIGAN

CHEVROLET

FIRST FOR QUALITY AT LOWEST COST



Farmers like to go to town in Chevrolet's kind of style—a style that will be good for a long time to come

The modern, luxury look of the new Chevrolet is no candy coating! This rugged beauty can take on the toughest workday chores you'll put to it. It'll take them for years and years, and still keep the "Sunday best" appearance that makes you so proud you're a Chevrolet owner.

Farmers find that Chevrolet carries the whole family in comfort ... and a big trunk-load, too

Chevrolet's spacious "Five-Foot" seats afford generous helpings of head, leg and elbowroom. (Six grown-ups can ride in comfort.) The trunk's giant-size, too—big enough for all those bulky packages you buy in town. And the whole family will enjoy the added riding comfort of Chevrolet's low center of gravity.

Farmers know that Chevrolet gives a good accounting for every dollar put in

Count up all the high-priced car advantages you get at lowest cost in Chevrolet—Certi-Safe Hydraulic Brakes; push-button starter; Hand-E-Gearshift; improved Unitized Knee-Action ride; airplane-type shock absorbers; Box-Girder Frame, to mention a few. You'll agree that Chevrolet is far and away *the most beautiful BUY of all!*

CONTROL THE CORN BORER...

the Humboldt STALK CUTTER!

the Original Power-Driven Cutter!

We are proud to present **the original** power-driven stalk cutter and shredder, **THE** HUMBOLDT CUTTER. This implement, as with all good products, is the answer to a definite need and demand. The idea of cutting corn stalks is not new. But the Humboldt Cutter offers an easier, faster and more thorough method just when the need was never greater.

The two basic reasons for shredding corn stalks and leaving them in the field have long been accepted. First, as a definite aid in the fight against the corn borer, again costing corn growers millions this year. Second, everyone knows there's one place where those stalks belong—**right back in the ground they grew from.**

These and many other advantages like easier plowing, better seed beds, eliminating long stalks in cultivating or combining—all these justify the cost of a machine to rapidly cut, shred and spread stalks evenly over two rows at a time. Timken Bearing equipped. Straight knives or swinging hammers optional.

And The Humboldt Cutter is the machine that will do the job. Humboldt Dealers have sold over three thousand Humboldt Stalk Cutters and we leave it up to them. They know!

FIND YOUR HUMBOLDT DEALER IN THIS OUTSTANDING LIST!

Iowa Humboldt Dealers

Ackley—Weber Motor Company
Adel—Adel Truck & Impl. Co.
Akron—Adams Implement
Albert City—Albert City Im. Co.
Alleman—J. Roy Johnson Co.
Algona—Kossuth Co. Impl. Store
Alta—R. W. Peterson
Ames—Ames Implement Co.
Anamosa—Dragoo Impl. Co.
Anita—Shaffer & Burns
Anthon—Groat Implement Co.
Aplington—D. V. Harken & Sons
Archer—J. C. Koolbeck
Armstrong—George W. Peterson
Ashton—Ashton Farm Store
Atlantic—Larsen & Linn Farm Equipment Co.
Audubon—Winther Impl. Co.
Aurelia—Bruce Implement Co.
Avoca—Van Alstine & Morris Co.

Bagley—Carroll Implement Co.
Bancroft—Deitering Implements
Battle Creek—Erickson Impl. Co.
Baxter—Herzog & Son
Beaman—Thomas Implement Co.
Bedford—Wilson Implement Co.
Belmond—Helland & Long Impl. Co.
Bennett—Wiese Blacksmith & Welding Shop
Blairstown—Thompson's Impl. & Mach. Shop
Bode—Williams Implement Co.
Bondurant—Williams Impl. Co.
Boone—Boone Motor & Impl'ment
Bouton—Fred Schnoor
Bradgate—Bradgate Co-operative Exchange
Breda—Gilbert W. Toyne
Bristow—Duffield & Dunning
Britt—Pritchard Implement Co.
Buffalo Center—S. B. Jensvold Co.

Calamus—Betts Repair Shop
Calumet—Boldt Motor & Impl.
Carnarvon—Service Garage
Carroll—John Juergens Impl. Co.
Cedar Falls—Al Matson & Son Implements
Cedar Rapids—Iowa Tractor & Machinery Co.
Central City—Val's Welding Shop
Charles City—Jay Frank Imp. Co.
Cherokee—Cherokee Impl. Co.
Churdan—Churdan Impl. Co.
Clarinda—Farm Equip. Service
Clarion—Ennis & Adams Farm Equip. Co.
Clear Lake—DeBruyn and Pugh Implement Co.
Cleghorn—Johnson Impl. Co.
Coggon—Baxter Motor Impl. Co., Inc.
Colfax—Colfax Impl. Co.
Columbus Jct.—Weber & Huston
Coon Rapids—Kretzinger Im. Co.
Corning—Hinderson Tractor Co.
Corwith—Risvold Brothers Co.
Council Bluffs—Bantrup Tractor & Equipment Co.

Dallas Center—Rhinehart Im. Co.
Dayton—Dayton Implement
Decorah—Hattlestad's Impl.
Denison—Hanigan Impl. Store
Des Moines—Aaron Hale
DeWitt—Stahl Impl. Co.
Donahue—Marti Brothers
Doon—Blankespoor Machine Shop
Dows—L. J. Banwell
Duncombe—Berggren & Moore
Dunlap—Sweetman Farm Supply Co.
Durant—Dickey Implement Co.
Dysart—Cornfield Auto Co.

Eagle Grove—Needs Farm Equipment Co.
Earlham—Hunter Motor Co.
Early—Vining Welding & Repair Service
Eldora—Kramer Motor Co.
Eldridge—Eldridge Hdwe. & Im.
Emmetsburg—Hite Impl. Store
Estherville—Boe Implement Co.
Everly—Clark Implement Co.

Fairfield—Noller Bros. Impl. Co.
Farnhamville—Tasler Impl. Co.
Fenton—Priebe Sales Co.
Fonda—Miller Implement Co.
Forest City—Eymann Impl. Co.
Fort Dodge—Webster Co. Im. Co.
Fremont—Lee's Farm Store
Garner—Urich Implement Co.
Garrison—Kizer Implement Co.
Gaza—Producers Co-Op. Co.

George—Dreesman Impl. Co.
Gilmore City—W. H. Goodrich Implement
Gladbrook—Gladbrook Farm Im.
Glenwood—Harper Implement Co.
Goldfield—Moseley Impl. Co.
Grand Junction—Whitehill Impl. Co.
Greene—Pooley Lumber Co.
Greenfield—Cunningham Sup. Co.
Greenville—Greenville Elevator
Grimes—Dunbar Farm Mach. Co.
Griswold—Big 4 Implement Co.
Grundy Center—Petersen Im. Co.

Halbur—Friedman Impl. Co.
Hampton—Kramer Motor Co.
Hanlontown—Hanlontown Im. Co.
Harris—J. T. Purviance Impl.
Hartley—The Goetsch Co.
Holstein—Michaelsen & Sons
Hornick—W. P. Duncan Garage
Hubbard—J. W. Janssen
Humboldt—Burke & Carlson
Humboldt—Humboldt Impl. Co.
Humboldt—Vonderhaar Impl. Co.
Humboldt—J. W. Little & Son
Humboldt—Londien Impl. Co.
Huxley—Ed Hall Implement

Ida Grove—Michaelsen & Sons
Independence—Hand Implement
Indianola—Farmers Impl. Store
Iowa City—Kelly Farm Equipment Co.
Iowa Falls—Rosene & Hubbard Impl. Co.

Jamaica—Lumley Implement Co.
Jefferson—Dunlop Impl. Co.
Jesup—E. Parker & Son
Jewell—Ralph Draper

Kanawha—Moeller & Brunsen
Keokuk—Van Ausdall Brothers
Keosauqua—Davidson Motor Co.
Keota—Al Mess Impl. Co.
Kingsley—Robeson Farm Equip.
Kiron—Larson-Turin
Knoxville—Hawkeye Farm Equip.

Lake City—Snyder Impl. Co.
Lake Mills—Shawhan Impl. Co.
Lake Park—Carl's Implement
Lanyon—Lanyon Hardware Co.
Latimer—Floyd's Appliance
Laurens—Trenary Implements
Ledyard—Carpenter & Son
LeMars—Meredith Implement Co.
Lincoln—Ralph Schmidt
Linden—E. L. Miller
Linn Grove—Farmers Supply Co.
Livermore—Kay Implement Co.
Lohrville—Lohrville Impl. Co.
Lone Tree—Lone Tree Im. Store
Luverne—Luverne Implement Co.
Lytton—Ditzel Implement Co.

Madrid—Leonard & Flynn Impl. Co.
Malcom—Farmers Elevator Co.
Mallard—Johnson Implement
Manchester—Manchester Im. Co.
Manly—Fred H. Logeman
Manning—Puck Implement Co.
Manson—Mossberg Farm Store
Mapleton—Ralph Edrington Impl.
Marathon—Art A. Johnson Impl. Co.
Marcus—Olson and Apel
Marion—Marion Mach. & Im. Co.
Marshalltown—Central Iowa Farm Store
Mason City—Cerro Gordo Impl.
McCallsburg—William T. Tett
Melbourne—Wiemers Impl. Store
Melvin—Juber Implement Co.
Meriden—Lundell Mfg. Co.
Meservey—Fischer Impl. Co.
Milford—Whitmer Hdwe. & Impl.
Missouri Valley—Boehler Impl. Co.
Mitchellville—Willenbrock Impl. Co.
Mondamin—Sweetman Farm Supply Co.
Montezuma—Noller Motor & Implement Co.
Monticello—Monticello Impl. and Truck Co.
Moorhead—Joe Sorenson Impl.
Mount Vernon—Buresh Impl. Co.
Muscatine—Si J. Williams Co.

Nevada—Farm and Home Store
Newell—Oleson and Uhl

New Hartford—New Hartford Implement Co.
New London—Englehard Im. Co.
New Providence—Conrad's Gar.
New Sharon—Lamis Impl. Co.
Newton—Newton Impl. Co.
Nichols—Elder Implement Co.
North English—F. Plank Feed St.
Northwood—Thoen Impl. Co.

Oakland—Stempel Impl. Co.
Ocheyedan—Ed M. Wise & Son
Odebolt—Boerner & Roth
Oelwein—Wardell Chevrolet Co.
Onawa—East Onawa Impl. Co.
Osage—Farmers Impl. Store
Oskaloosa—Mahaska Farm Service Co.
Ottumwa—Shafer Tractor Co.

Palmer—Palmer Implement Co.
Palm Grove—Palm Grove Elev.
Parkersburg—Heine Impl. Co.
Paton—Mengel Impl. and Farm Store
Paullina—Paullina Motor Co.
Pella—Pella Supply Co.
Perry—Hanlon Motor Co.
Peterson—Art A. Johnson Impl. Co.
Pocahontas—Kaiser Auto Co.
Pomeroy—Bolaken Impl. Co.
Prairie City—E. M. Brubaker & Sons
Primghar—Ten Kley Impl. Co.

Radcliffe—Osmundson Impl. Co.
Rake—S. B. Jensvold Co.
Red Oak—Farmers Mercantile Co., Inc.
Reinbeck—Cecil K. Robinson
Renwick—S. H. Klassie
Ringsted—Christiansen Bros. Hardware
Rockford—O. E. Fischer
Rockwell—Reliable Impl. Co.
Rockwell City—Chappell Im. Co.
Rolfe—Robinson Farm Equip.
Rowley—The Farm Service Store
Royal—Royal Implement Co.
Rudd—Rudd Implement Store

Sac City—Sac County Impl.
Sanborn—Geo. C. Getting
Schaller—Swenson & Gosch
Scranton—Brobst Garage
Seymour—Neil Donald
Sheffield—Skeries Machine Shop
Sheldon—Krahling Impl. Co.
Shenandoah—M. M. Sondag
Sibley—Williams & Smith
Sioux City—Dahl Impl. Co.
Sigourney—Strohman Hardware & Implement
Sioux Rapids—Sioux Impl. Co.
Smithland—Hall Motor Co.
Spencer—Al Johnson Impl. Co.
Spirit Lake—Cole Farm Equipment Co.
State Center—Center Impl. Co.
Storm Lake—Larson Impl. Co.
Story City—Si's Sales & Service
Sully—Sully Implement Co.
Sutherland—Shorb Impl. Co.
Swea City—Linde Impl. Co.

Teeds Grove—Huebner Parts Service
Templeton—Harker Blacksmith & Welding Shop
Terril—Bendixen Implement Co.
Tipton—Brown & Murphy
Titonka—Titonka Impl. Co., Inc.
Traer—Cherveny Impl. Co.
Truesdale—L. F. Cradit

Villisca—Danielson Impl. Co.
Vinton—Roths Impl. Co.

Wallingford—Hanson Impl. Co.
Wall Lake—Neil Richardson
Washington—Farmers Supply Co.
Waterloo—Earle L. Brown Impl. Co.
Waukon—Grangaard Impl. Co.
Webster City—Huston Impl. Co.
Wellsburg—Okones Impl. Co.
Wesley—Bauer Implement Co.
West Bend—West Bend Auto Co.
West Des Moines—Crow Im. Co.
Whiting—Arthur Langren
Whittemore—Whittemore Im. Co.
Williams—Dickinson Hardware
Winfield—Scott Equipment Co.
Winterset—David D. Weems Im.
Woolstock—Jones Impl. Co.
Woodward—Wall Implement Co.

SEE YOUR HUMBOLDT DEALER NOW

—or write the factory for new color circular, prices and corn borer information. SOME DEALER TERRITORY AVAILABLE. Address Dept. W-3.

THE SILBAUGH MFG. CO. HUMBOLDT, IOWA

A WALLACE-HOMESTEAD POLL

Notify November 1 Of Lease's End

Only 3 Per Cent Of Iowa's Farmers Would Kill Notification Act; 87 Per Cent Favor It

IF YOU were a tenant—or a landlord — would you want four months' notice before the other fellow ended the lease? That's what the Iowa law provides.

H. F. 290, a bill now before the Iowa legislature, would, in practice; end the effectiveness of this law.

How do Iowa farmers feel about this? Do they want to repeal the law, keep it or improve it?

The Wallace-Homestead Poll, interviewing on the farm a cross-section of Iowa farm people, found that:

1. Repeal of the law was favored by 3 per cent.

2. Keeping the law as it is was favored by 42 per cent.

3. Moving the notification date back to September 1 was favored by 45 per cent.

4. Ten per cent were not sure what was best to do.

Owner-operators and tenants voted about the same way, except that tenants gave stronger approval to September 1 as the notification date.

Politics made no difference in the vote. Of those who voted for the Republican candidate for governor, 89 per cent were for the present law—as it is or with a September 1 date. And 89 per cent of the Democratic voters also approved the law. Folks who didn't vote, or didn't have a choice for governor, were only 70 per cent in favor of the law.

Farm people who are interested enough in politics to vote are also interested in keeping the notification law.

Back in 1943, when a similar attempt was made to kill the notification law, the farm vote in a Wallace-Homestead Poll came out about the same way.

Only 7 per cent wanted repeal then. And 39 per cent wanted the law left with a November 1 date, while 44 per cent wanted the date changed to September 1.

Since a supreme court decision has weakened the law by saying that a clause waiving notification can be included in the lease, the Wallace-Homestead Poll asked:

"This notification law has been changed, in effect, by a supreme court ruling which says that the lease can carry a paragraph stating that notification is not required. Do you think the Iowa legislature should amend the law to require notification, no matter what the lease says?"

On this question, the farm vote was:

1. Yes (for amendment), 67 per cent.

2. No (against amendment), 19 per cent.

3. Undecided, 14 per cent.

On this, Republican voters were 67 per cent for the amendment and Democratic voters were 69 per cent in favor.

Renters were 73 per cent in favor, while owner-operators were only 62 per cent in favor of the amendment.

Some legislators may ask: "How reliable are opinion polls such as these? How far can we count on them to reflect the opinion of all the farmers?"

The Wallace-Homestead Poll has been making surveys of Iowa farm opinion since 1938. Poll results have been checked against elections, census figures, crop and livestock reports, etc.

On most questions, it is safe to figure that the poll percentage will be within 5 points of the figure that would result if every person on the farms of Iowa were polled.

In the case of the 87 per cent who favor the notification law, the vote would lie somewhere between 82 and 93 per cent if every farm adult in Iowa were interviewed.

In addition to casting a vote on this question, many Iowa farm people made additional comments. Some of them are given here:

"Time of notification should be different in different parts of the state. You should be told earlier here than in southern Iowa, where we came from. But you really don't have to be told if you aren't getting along all right; you always

Iowa Farmers Said This---

WHEN WALLACE-HOMESTEAD POLL ASKED:

"The Iowa law now provides that notice of termination of a farm lease on March 1 should be given by the preceding November 1. If no notice is given, the law provides that the lease is automatically extended for another year. Which of the following steps would you like to see taken about this law?"

1. Repeal it	**3%**
2. Leave notification date as it now is, November 1	**42%**
3. Change notification date to September 1	**45%**
4. Not sure	**10%**

Women like notification law, too. Mrs. Hans Barkema, of Hamilton county, Iowa, voted to keep the law, move notification date up to September 1.

know." — Young Woman Renter, Clayton County.

"I'd like to see some kind of a law so that the tenant, if notified on November 1, won't be able to tear up the place in the remaining four months."—Owner Appanoose County.

"Let's let the lease notice termination stay as it is, November 1. It's a good law — keep it! Some farmers aren't familiar with it yet, in this county."—Farm Operator, Johnson County.

"For the good of both landlord and renter, no farm should be rented for less than three years." — Older Farmer, Black Hawk County.

"The law is all right as it is. That gives the tenant time to go out and find a place, and gives the landlord a chance to line up another tenant."—Farm Woman, Union County.

"September 1 is not any too soon to know the plans of either landlord or renter. They both have a better chance to get fixed up for a move if they know about it early."—Owner, Greene County.

"September 1 is too late. The renter should be notified by July 1, at least, in order to give him an opportunity to get another farm." —Renter, Bremer County.

"I believe the date should be moved up to September 1. If you have to move, the sooner you find out the better." — Audubon County.

"Both the landlord and tenant should read their lease carefully. We don't need more laws. If people want to get around them, they will find ways." — Owner, Adair County.

"There should be notification, no matter what the lease says. A lot of people wouldn't read the fine print."—Appanoose County.

"Leave the date where it is—November 1. Too many don't have the rent paid before then."—Union County.

"Looks to me like September 1 gives the renter a chance to find a good farm somewhere else, and the landlord time to find a good renter."—Jackson County.

"There are too many loopholes in these farm leases. The law should insist on notification."—Farm Woman, Tama County.

"Change the date to September 1. Then both the landlord and the tenant will know early in the fall what they are going to do."—Farmer, Fayette County.

Farm Service Bulletin

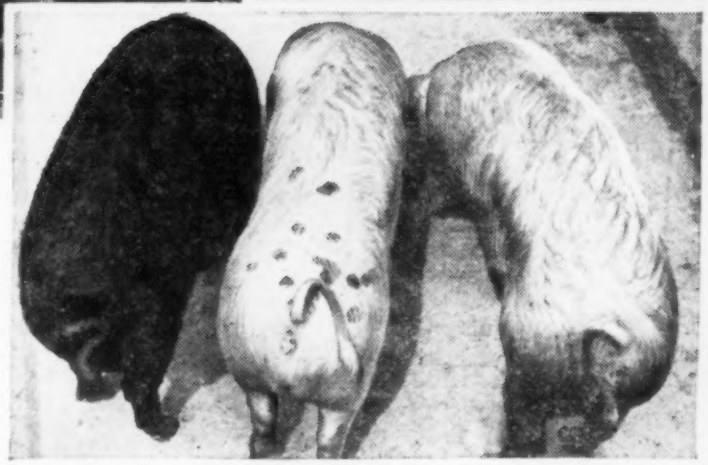
1 GRASSHOPPER WARNING —New insecticides, chlordane and toxaphene, will be available as sprays, dusts or bait. Community action is best. See your county agent.

2 FOOT-AND-MOUTH DISEASE —Prompt discovery of this highly contagious disease of cattle, sheep, goats, swine is important if an outbreak should occur in the United States. Learn the symptoms now. Write to U.S.D.A.

3 NEW DESIGN TRACTOR TIRE —The Cities Service Mudmaster tire has a double buttress continuous tread to expel dirt and mud. It rides smoother, gives better traction and lasts longer. Buy Mudmaster tires from the Cities Service Farm Representative.

CITIES SERVICE
QUALITY PETROLEUM PRODUCTS
Accessories for the farm

4 CLEAN ENGINES GIVE MORE POWER —The remarkable Cisco Solvent thoroughly cleans out the crankcase area of your farm engines. Removes sludge and other troublesome deposits. Buy it from your Cities Service Farm Representative.



5 NEW STREAMLINED HOG — The 1949 model streamlined hog (center hog in photo at right) has a longer body and a greater proportion of lean meat. It gives more ham, bacon and loin for each pound of feed consumed. The new hogs also have large litters.

HORN-DRAULIC LOADERS
THE YEAR ROUND FARM IMPLEMENT

EASILY INSTALLED—ONE MAN OPERATION
MODELS FOR 80 DIFFERENT TRACTORS

JUST OFF THE PRESS!

The NEW 1949 Horn-Draulic Folder is available. Get complete details on this Labor and Money saving farm implement. There is a Horn Dealer in your locality.

SINCE 1909

WRITE FOR DETAILS...
THERE IS A HORN DEALER IN YOUR LOCALITY
HORN MANUFACTURING COMPANY
FORT DODGE, IOWA, U.S.A.
DIVISION OF HORN INDUSTRIES
THE WORLD'S LARGEST MANUFACTURERS OF HYDRAULIC LOADERS

WHEN COMMODITY PRICES ARE DOWN
...Operating Costs Must Be Cut!

NOW AVAILABLE FOR
- All Ford Tractors
- Allis-Chalmers WC, RC and WF
- All Ferguson Tractors

Need Creeper Speeds . . . or a slower reverse?
Ask about the SHERMAN STEP-DOWN TRANSMISSION

75,000 Sherman "Step-Up" owners save money on every acre they work in a "Step-Up" gear—and they work more acres in a day, too.

Install a "Step-Up" in your tractor and get these benefits by having twice as many working speeds. You select the *best* gear for each job you do—get done faster. You save gas, oil, and engine wear.

Ask your dealer to show you the Sherman chart. See how the "Step-Up" will enable you to do more work at less cost on your farm. See your tractor dealer today, or write us for details.

SHERMAN STEP-UP TRANSMISSION ®

SHERMAN PRODUCTS, INC.
ROYAL OAK, MICHIGAN

You Won't get tangled with barbed wire if you use sled-mounted unrolling spool like this one on Roy Carnes farm in Lee county, Iowa. Board above is wired loosely to act as a brake so wire won't unroll too rapidly, and to keep it from jumping off the spool.

You Can't Afford To Feed Rats

Poison And Kill Them Now Before They Move Away From Buildings

NOW is a good time to carry out a rat-killing campaign. The rodents are still living around your buildings. As warmer weather comes, they scatter out more. Then it will be harder to wipe them out with poison.

You may wonder if you have enough rats to worry about. Possibly, according to the formula worked out by Harold Gunderson, Iowa State College extension entomologist, you have more than you think.

Says Gunderson: If you never see a rat, but do see signs of them, you probably have from one to 100 rats; if you sometimes see a rat at night, you probably have from 100 to 500.

If you see rats every night, but only occasionally in the daytime, you may have from 500 to 1,000 rats; if lots of rats are seen at night and several every day, you may have as many as 5,000 of the pests on your place.

And you can't afford to feed rats. A rat eats or destroys grain or feed equivalent to three bushels of corn a year.

That doesn't charge the rat for damage done to buildings, foundations or floors. Nor does it count the cost of fires caused by chewed wiring.

Poultry losses and potential losses from livestock disease can also be charged to rats.

Poisoning works best if you prebait with unpoisoned meat for several nights. Rats thus get used to accepting the free meal. And it gives you an idea of how much poison you need to get good kills.

Gunderson says you can figure 100 rats will clean up one pound of bait. Ground horse-meat, fish or meat scraps make good bait.

Place bait in spots frequented by rats. Pick up all uneaten bait each morning. Put out more bait each night, as long as the rats clean it up, until you have a good idea of how many rats you have.

After three or four nights of baiting, mix the poison in with the bait. You can use antu, red squill or barium carbonate. Those are three that work well, altho there are others you can use.

If there is no way you can keep your livestock from getting at the bait, use red squill. However, if a rat once tastes this poison and lives, you'll never get him to taste it again.

Antu is very effective. A tiny amount will kill a rat. But if a rat gets less than a deadly dose, he will be immune to it for about 30 days.

Barium carbonate is odorless, tasteless and deadly to all animals. Treat this poison as any poison should be treated.

In the chicken house, for example, place the bait in a chicken crate where the rats can get it and the chickens can't. Pick up the uneaten bait in the morning. You will be able to pick up a lot of dead rats, too.

In about two weeks, pull the same stunt again. Two poisoning campaigns should pretty well clean you out of rats. Get rid of old trash piles and junky places where rats can live; then they won't be so apt to move back.

Uses Every Blade Of Brome Grass

Four-way use of brome grass is made by George Dueringer, dairyman and hog producer in Ford county, Illinois.

Dueringer starts pasturing his brome lightly in April. Cows stay on it until seed ripens in late June or early July.

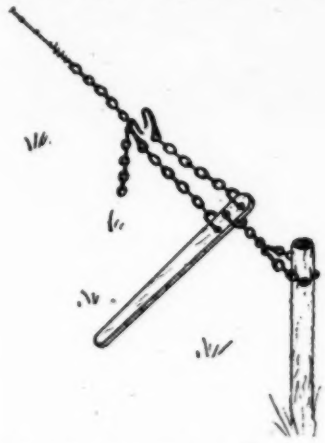
Then George sets his combine high and harvests a crop of seed—averaging 300 to 400 pounds per acre. Once the seed is off, he cuts the grass for hay—making from two to three tons to the acre.

Then the cows go back on the pasture for the rest of the season.

HANDI-HINTS

A Homemade Fence Straightener

Here is a fence straightener that a farmer can make himself. The handle is of any straight-grained hardwood 2x4 or 2x6 at the clevis end, and may be tapered to 2x2 at



the handle. Length may be from 8 to 12 feet, depending upon the power you want.

The take-up chains should be 12 to 14 inches long, grab hooks to grab onto a log chain of at least ⅜-inch link material. These can be fastened to the handle 6 inches apart, with U-bolts or half-inch clevises. Clevis for the anchor chain should be half-way between the pull chains.

This self-locking stretcher can be used wherever heavy, steady power is needed.

Makes Pig Brooders From Old Barrels

Last year, when my sows farrowed early in March, and the weather was cold, I made some brooders which many people have since asked me about. Here's how I made them:

First, I cut ordinary 55-gallon oil barrels in half. This leaves two half-barrels, each with a closed and an open end. At the

open end, make a door six to eight inches wide and about nine inches high.

In the closed end, make a hole large enough for a light plug to fit into. Fasten the half-barrel securely to the corner of the farrowing pen. You can wire it fast, or nail boards across the corner of the pen.

Run an extension cord down to the barrel. Screw in a large bulb or heat lamp, and there's a rugged pig brooder. — Duane Wahman, Hamilton County, Iowa.

WORLD RECORD YIELD OF 224.2 BUSHELS PER. ACRE

MADE BY CARROLL BROWN of Rose Hill, Iowa

Genuine PFISTER HYBRIDS

Carroll Brown, 35, yield record holder, serves in the Iowa State Legislature. His farming program includes marketing livestock and dairy products.

RECORD MADE BY

GENUINE PFISTER HYBRIDS *Exclusively*

YIELD OFFICIALLY DETERMINED AND ACCEPTED BY IOWA CORN AND SMALL GRAIN GROWERS Ass'n.

Genuine Pfister Hybrids have produced a record to break all records . . . 224.2 bushels of corn per acre! This phenomenal new world record was made by State Representative Carroll Brown on his farm near Rose Hill in Mahaska County in the 1948 Iowa Ten-Acre Yield Test, an official state contest sponsored by the Iowa Corn and Small Grain Growers Association.

Like thousands of other farmers, Mr. Brown chose Genuine Pfister Hybrids, the winning hybrids that produce more corn — less cob. He planted his plot exclusively to Genuine Pfister Hybrids No. 347 and No. 170. The hybrids thrived in the thick planting, the stalks were uniform. The ears were about four feet from the ground, matured normally and were free of mould. Cobs were solid, with no evidence of immaturity.

Brown spring plowed, cultivated the field twice and treated the corn with DDT to destroy corn borers. Fertilization was confined to 200 pounds of 45% triple phosphate.

The Genuine Pfister Hybrids No. 347 and No. 170 were purchased from Walden Farm, Pfister Associated Grower Member at Keota, Iowa.

Establishment of the world record of 224.2 bushels of corn per acre again demonstrates Genuine Pfister's top performance. In the field, in the feed lot or in record yield competition, Genuine Pfister Hybrids are winning hybrids.

Plant The Record-Smashing Hybrids on Your Land . . . . .

THE HYBRIDS THAT WIN 8 OUT OF 10 TIMES

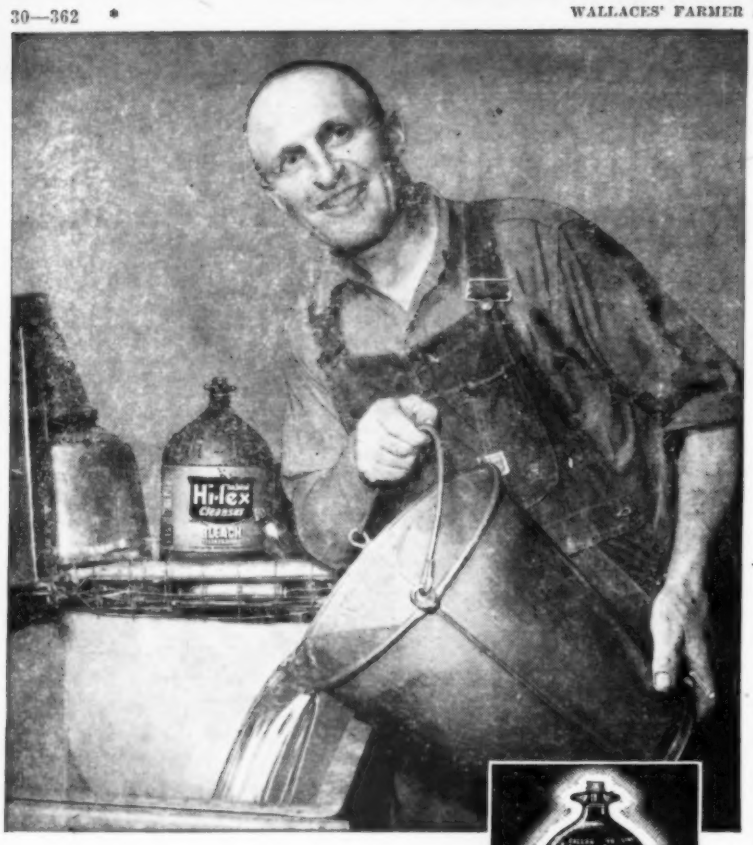
In 1,062 competitive yield checks made in farmer fields during 1948, Genuine Pfister Hybrids won 86.6% of the time by an average of 11.3 bushels more shelled corn per acre.

Genuine PFISTER HYBRIDS

Listen to "YOUR LAND AND MY LAND"
WHO—1040 K.C.—7:15 A.M. Tues. & Thurs.

PFISTER ASSOCIATED GROWERS, Inc.

BOX H, EL PASO, ILLINOIS



Hi-lex has been dairy standby for years

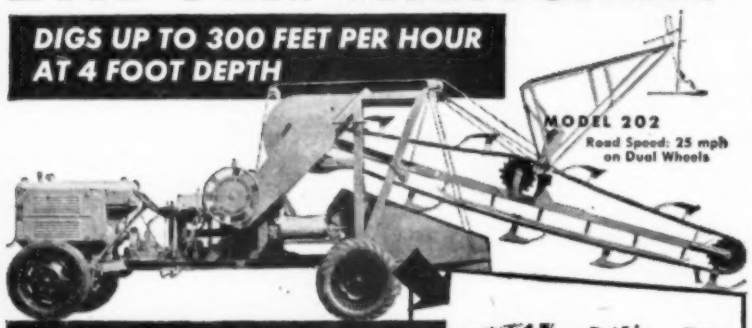
says Dakota Dairyman

"We produce Grade A milk," says H. H. Bement of Route 3, Sioux Falls, South Dakota, "so we have to use the best dairy disinfectant we could find—and that's Hi-lex. Hi-lex is quicker to use and much more economical . . . just one cup is all you need for eight gallons of water. I've found that I can clean my dairy equipment with Hi-lex without taking it apart. That's another good reason for using Hi-lex.

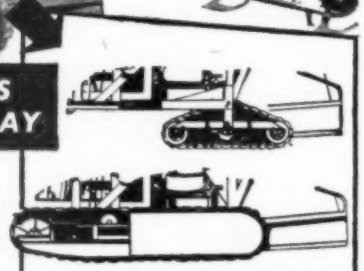
Buy Hi-lex . . . Buy the Gallon . . . Buy the Case

BADGER TRENCHER

DIGS UP TO 300 FEET PER HOUR AT 4 FOOT DEPTH



CUSTOM OPERATORS MAKE UP TO $200 A DAY



For Marsh Land Operation, Dual Wheels are Quickly Replaced by Half Tracks or Full Tracks.

Fast, clean, uniform trenching . . . 7 to 24 inches width . . . up to 11 foot depth . . . over fifty advancing speeds equip the one-man *economical* Badger Trench Excavator to operate *in and on* any kind of soil! Patented Badger shovels are of quarter-inch plate, hot rolled and treated to assure long-life cutting edge. Shovel cleaner removes stickiest soils. Trench apron eliminates spillage.

OUTSTANDING FEATURES:
May be transported on 1½ ton truck. Reversible cross conveyor . . . Alemite fittings seal out dust from ball bearings on all high speed shafts; bronze and babbitt bearings on low speed, high torque shafts. Overload safety clutch. Digs forward, backward; over, under obstructions.

Badger Owners
- Farmers
- Co-ops
- Utility Companies
- Plumbing Contractors
- Drainage Contractors
- Telephone Conduit Contractors

Cash In On This Custom Work Now!

Profitable tiling, drainage and ditching jobs await Badger owners and operators. *And four out of five Badger operators are farmers who make big money doing custom work!* Foundation trenching for farm buildings, real estate development, electrical conduit laying, sewer, water, gas lines . . . these and many other custom jobs enable Badger owners to pay for the machine in as little as thirty days.

Write today FOR COMPLETE INFORMATION

BADGER MACHINE CO.

Dept. W, WINONA, MINNESOTA

Where State Income Tax Differs

Federal And Iowa Rules Are Much Alike, But Watch These 11 Points

To the Editor: At what points does the Iowa state income tax differ from the federal income tax? — B. J., Warren County, Iowa.

1. In the first place, you have until March 31 to file your state income tax return. The amount due, if over $10, can be divided into two payments instead of four. First payment is due with the return. Second payment is due September 30.

2. There is no standard deduction for personal expenses on the Iowa income tax form. You must itemize such things as personal taxes, property tax on your home, medical bills, contributions, etc. The federal income tax is a deductible item on your state income tax.

3. Interest on government bonds must be reported on the state income tax form, but you can take it out again. Report the interest at Line 3, Page 1, and deduct it at Line 15.

4. Capital gains are not taxed and capital losses are not deductible on the state income tax report. But the federal and the state authorities define capital gains differently.

You don't have to report the sale of a farm or farm implements on the state income tax form. But money from sales of dairy and breeding stock is taxed the same as other livestock income.

Grain futures bought on the board of trade are not considered as capital assets by the Iowa authorities. Gains are taxable and losses are deductible.

5. Husband and wife can't split the Iowa income as the federal statute permits. They can file jointly or file separate reports, as they may choose. On separate returns, each must report income actually earned by that one.

In some cases, taxes are saved by husband and wife filing separate returns. You can figure both ways, and use the method which results in the least tax.

6. Repairs on farm fences are not allowed under Iowa rules. But, in lieu thereof, "the tax-payer may add such costs to the valuation when computing depreciation on such fences. The depreciation rate shall be 7 per cent of the cost for an unlimited period of time."

7. Earnings of minor children must be reported on the Iowa income tax return. On the federal return, earnings of minor children do not have to be reported by the parents, but the child must make a report if $600 is received.

8. Federal taxes which are deductible on the Iowa return, but not deductible on the federal return, include federal retailers' excise tax on furs, jewelry, luggage and toilet preparations. Also Social Security tax paid by an employed person, but not more than $30.

9. Married persons need not make an Iowa return unless their combined net income is $2,000 or over. Single persons must report if their net income is $1,250 or over. Anyone who gets $3,000 or more of gross income must make a report.

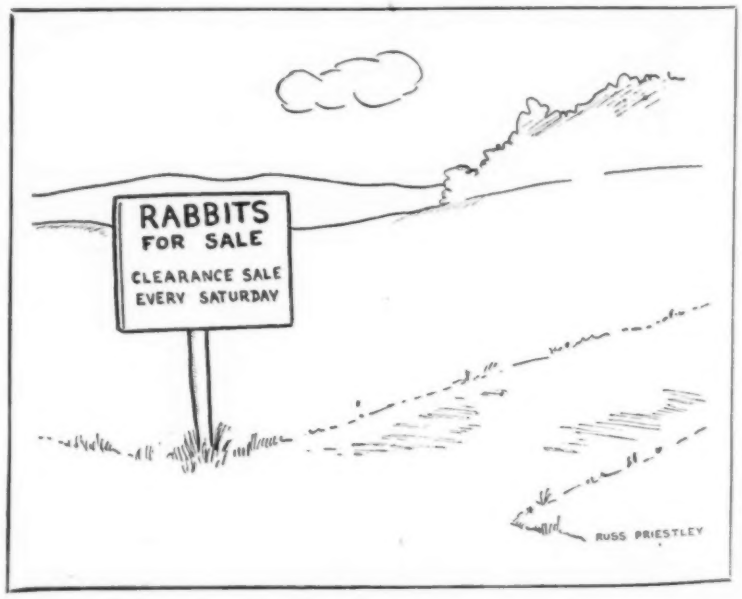
10. Deductions from the computed tax are allowed in the Iowa return, but there are no deductions from gross income allowed. A married couple may deduct $30 for themselves and $7.50 for each dependent. Single persons can deduct $15.

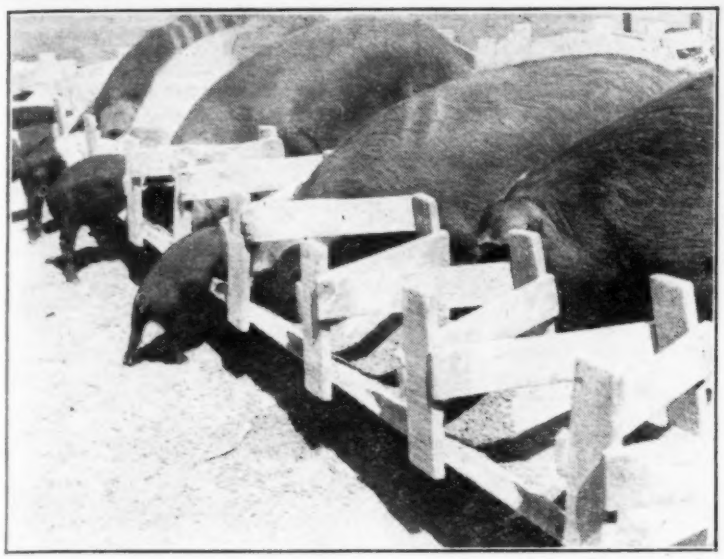
If you furnish the major support of a parent or grandparent, you may deduct $450 from gross income in lieu of the $7.50. But both can't be deducted.

11. The Iowa state net income tax is ¾ per cent on the first $1,000, on the second $1,000 it is 1½ per cent, on the third 2¼ per cent, on the fourth 3 per cent, and on all net income above $4,000 the tax is 3¾ per cent.

This year, the tax will be figured as the blank provides. It is not expected that the legislature will change the rates, as has been done each year for several years.

There are other minor differences between the federal and the Iowa state income tax rules, but the above 11 points are the most important to farmers.





No Fighting among sows at this feed trough on George Leffler's farm in Van Buren county, Iowa. Trough is divided into individual stalls by 1x4 boards in the V-shaped pattern shown.

SERVICE BUREAU

The Sign of Protection

Soldiers' Bonus Tax Authorized

To the Editor: I paid my taxes yesterday. After looking thru my receipts, I find that they charged me $2.12 for soldiers' bonus. Is there an assessment for the soldiers' bonus at this time?—W. A., Jasper County, Iowa.

The Iowa State Tax Commission says there is a levy of 1.95 mills for soldiers' bonus. They say this was authorized by the voters last fall when they approved the bonus.

Private Drain Can Cross Road

To the Editor: We are laying a tile to drain our slough. We have to cross a county road. What is the procedure? —D. S., Osceola County, Iowa.

The law says the county board of supervisors or the county engineer must give you specifications for crossing the highways. You have the right to cross the highways for the purpose of drainage. But you must do it according to specifications.

What Standards For Grading Corn?

To the Editor: What are the standards for the various grades of corn? I hear them lots of times, but can't remember the exact requirements.—C. H., Taylor County, Iowa.

Here are the official standards for corn, from the Department of Agriculture Handbook:

Grade No.	Minimum test weight per bu.	Moisture	Maximum limits of— Cracked corn and foreign material	Damaged kernels Total	Damaged kernels Heat-damaged
	Pounds	Per cent	Per cent	Per cent	Per cent
1	54	14.0	2	3	0.1
2	53	15.5	3	5	0.2
3	51	17.5	4	7	0.5
4	48	20.0	5	10	1.0
5	44	23.0	7	15	3.0

How To Register Farm Name

To the Editor: What is the procedure necessary in registering the name of a farm?—M. A., Cherokee County, Iowa.

Iowa law regarding registration of farm names is given in Chapter 557.22 of the Code of Iowa. It says:

"Any owner of a farm in the state may have the name of his farm, together with a description of his lands to which said name applies, recorded in a register kept for that purpose in the office of the county recorder of the county in which said farm is located. Such recorder shall furnish to such land-owner a proper certificate setting forth said name and description of such lands."

The fee is one dollar.

Best Spacing For Soybeans

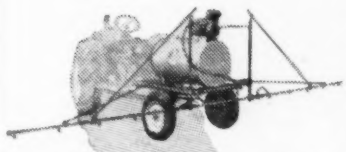
To the Editor: What is the best spacing for soybeans? And what fertilizer should be used? — C. A. L., Winnebago County, Illinois.

Experiment station tests show that soybeans planted in 21 to 28-inch rows generally yield best. Probably the best spacing for you would be the narrowest your machinery can handle. Many farmers prefer, however, the same width as corn rows, because of convenience in planting and cultivating.

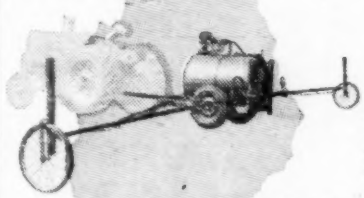
Soybeans respond less to fertilizers than most other crops. Unless your soil has a marked deficiency, it is probable that the fertilizer can be used to better advantage on other crops.

ONE of these Sprayers Fits Your Farm

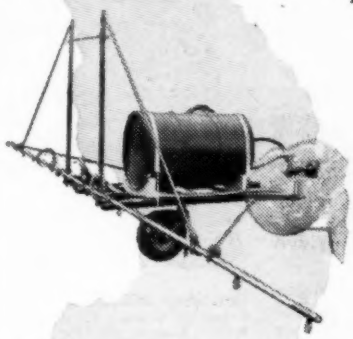
Don't take chances with your farm spraying program. Follow the field-proven Hanson Spraying Methods described in the Hanson Reference Book, available at your dealer or direct. And use Hanson Equipment.



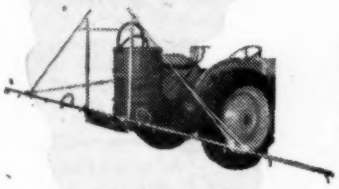
Sprayer A—100-gal. self-contained unit mounted on Hi-X trailer for row crop clearance.



Sprayer B—35-foot Resisto-Rust wide sulky boom; 200-gal. self-contained unit for large grain acreages.



Sprayer C—Direct drive power take-off driven gear pump. No wheels or pulleys. Pressures from zero to 400 lbs. Mono-wheel trailer for 50-gal. drum.



Sprayer D—Includes everything needed to assemble carrier platform on Ford or Ferguson tractors; capable of carrying 55-gal. drum and 15D (covers 5 rows) or 22D (covers 7 rows) boom; easily removed; can be leveled at any position of drawbar.

Here's Why!

There is a field-proven Hanson Unit to fit every size and type of farm. Typical Hanson features are:

- Rust-proof booms
- Quick, easy adjustment
- Pumps to fit the job
- Right accessories for every crop
- Parts and service throughout world

Any combination of Hanson Equipment—such as pumps, booms and tanks—can be purchased to meet your specific requirements.

At Spray Time, Say HANSON!

It means dependable agricultural chemicals and spraying equipment for every insect and weed control problem.

"it's common sense," Says Howard Hanson

"To buy all your chemicals and spraying equipment from one source. One dealer, one purchase, one source of service, supplies, and information. You'll like our equipment and the quick, easy Hanson System which we have developed to make your spray program successful"

WRITE TODAY

Howard Hanson & Co., Beloit, Wis., Dept. 12

Please send me, without obligation, your Hanson Weed Spraying Book and also literature on the units I have checked below:

☐ Sprayer A ☐ Sprayer C
☐ Sprayer B ☐ Sprayer D

Name.....
Town.....
R. F. D.....
My Implement Dealer Is.....

HOWARD HANSON & CO. BELOIT WISCONSIN

Foremost in Combined Chemicals and Equipment for Agriculture

McCulloch POWER SAW

Makes quick work of BUCKING . . . FELLING . . . LIMBING

20 Size Weighs Only 46 pounds!

- Superhot spark for quick starting
- Rip-Cross chain never needs setting
- Specially designed 5-hp engine

Light and handy enough to be easily carried in where the woods are thickest. Instantly detachable handle . . . one or two man operation . . . automatic clutch . . . chain stops when idling . . . rewind starter . . . full swivel blade . . . are a few of the many features.

Write for circular

Now . . . at these low prices:

20" Chain Saw	$389.00
30" Chain Saw	399.00
40" Chain Saw	409.00
50" Chain Saw	419.00
60" Chain Saw	429.00
20" Bow Saw	429.00

Prices F.O.B. St. Paul

POWER TOOLS, Inc. 1959 University Avenue, St. Paul 4, Minn.

BUY U. S. SAVINGS BONDS—THEY ARE PROTECTION FOR LATER YEARS—BUY SOME TODAY!

BUILD BETTER LITTERS *before* FARROWING

feed **Peebles' CONDENSED WHEY-PRODUCT with Ribolac***

The Best Buy in Milk Nutrients
50 and 100 lb. drums, 500 lb. barrels. Feed it with slop, mixed with ground grains or shelled corn. Guaranteed 55% solids.

● The time to start protecting your investment in your brood sows begins *before* farrowing. You will not only find Peebles' *Condensed* Whey-Product with Ribolac a good feed supplement . . . but a good protection for your future pork profits.

It contains 100% milk nutrients and the important B-Complex vitamins needed by hogs — especially Riboflavin — provided through the addition of Ribolac.

Feed it to brood sows and gilts throughout their entire gestation period and continue to feed it *after* farrowing to promote ample milk flow for litters.

Feed it to growing pigs, too . . . from weaning to market—for faster, more economical gains. It is fortified with additional Niacin to protect them from Necro—also Vitamin D_2 to guard against Rickets.

Get this appetizing growth-promoting milk solids supplement from your dealer today. Ask him for free folders telling how to feed it to poultry, hogs and calves for better growth, health and production.

Food from the farm... returned to the farm!

*Ribolac,—exclusive Western Condensing Company whey fermentation product—added to provide a guaranteed level of Riboflavin—plus other B-Complex vitamins as well as additional growth factors (both known and unknown) present in *natural* milk sources.

America's Finest Mixed Feeds are Fortified with Peebles' DRIED Whey-Product with Ribolac

Ask your feed dealer for America's leading brand feeds containing Peebles' DRIED Whey-Product with Ribolac. It is available to feed mixers everywhere.

WESTERN CONDENSING COMPANY
America's Largest Processor of Whey Products
Appleton, Wis. • San Francisco, Calif.

THE ORIGINAL STANDLEY Lift-Saver MILK COOLER

Aluminum Construction with Stainless Steel liner optional

Stop lifting heavy milk cans! With an efficient STANDLEY Milk Cooler, you just slide 'em in! Cools faster, cheaper, to meet Grade A standard, by new refrigerated water spray method. Write for Folder.

STANDLEY & CO., INC.
P. O. Box 3038, St. Louis 23, Mo.

JUST SLIDE 'EM IN!...

Do your buying from firms advertising in WALLACES' FARMER and IOWA HOMESTEAD. If you do not find in WALLACES' FARMER and IOWA HOMESTEAD the articles you want to buy now, just let us know what you want and we will be glad to give you names of reliable firms from whom you can make the purchase.

Robert Bain, Polk county, Iowa, carries the hand boom to spray scattered thistles at the edge of the patch while his father, C. A. Bain, drives the tractor. They are using the ester type 2,4-D.

Here's How To Kill Weeds

Chemicals Are Needed, But They Aren't Substitute For Good Farming Practices

CHEMICAL weed killers are vital to efficient weed control. But they are not a substitute for a number of good farming practices.

Good-quality, clean seed is the foundation of weed control. Clean cultivation and proper seed-bed preparation have an equally important place. So does any other procedure that prevents weeds from going to seed. Finally, for certain weeds, smother crops are recommended.

Those statements are from a new bulletin, "A Bird's-Eye View of Chemical Weed Control." This bulletin was prepared by A. L. Bakke, E. P. Sylwester and D. W. Staniforth, Iowa State College experts in weed control.

They have rounded up the weed-control data that pertains to this section of the country. You will want this bulletin as a reference. Wallaces' Farmer and Iowa Homestead will be glad to send it to you (see page 20.

Space here permits only a brief outline of some of the important sections of the booklet.

The weed-killing experts lead off with a discussion of 11 of the most common chemical weed killers. Some of the 11, like 2,4-D, come in several forms. Each chemical weed killer has certain uses for which it is best fitted. The bulletin tells what those uses are.

Included in the list of weed killers are the dinitro compounds, borax, cyanamid, herbicidal oils, sulfuric acid, sodium pentachlorophenate, IPC, ATA, 2,4,5-T and 2,4-D.

You will be interested in the explanation of the place for sodium salts, amine salts and the ester forms of 2,4-D.

The next section of the bulletin gives recommendations for using 2,4-D on the common Iowa crops.

In spraying weeds in corn, use not more than one-half pound of the salt or amine form, or one-fourth pound of the ester form per acre. Use only enough to kill the weeds. Avoid spraying on extremely warm days.

The use of drop extensions is recommended as one means of keeping much of the 2,4-D off the corn and on the weeds. Wait at least a week after spraying to cultivate corn.

Small grains, which have no legume seeding, can be sprayed when they are from 6 to 10 inches high, after they have fully tillered but before any heads appear. The same dosage applies to both corn and small grains.

Flax, except for varieties like E-5128, Crystal or Minerva, can be sprayed when it is 3 to 6 inches high. But use only one-fourth pound of sodium or amine salts or one-eighth pound of ester per acre. And never, never overdose flax.

One way to eradicate or control many weeds in pastures, fence rows and along roadsides is to use 2,4-D. Most grasses are not injured by ordinary doses of 2,4-D unless they are in the seedling stage.

Following the discussion of Iowa crops, the three experts explain the use of 2,4-D from the weed standpoint. Iowa's weeds are listed and their reaction to weed-killing chemicals explained.

In this section the experts list recommended 2,4-D dosages for the worst weeds.

Several on the noxious weed list require a number of treatments with 2,4-D for control or eradication. These include Canada thistle, horse-nettle, bindweed in some cases, and leafy spurge. The use of 2,4-D is not recommended for quack grass and Russian knapweed.

The various types of sprayers and methods of applying 2,4-D are discussed in another section.

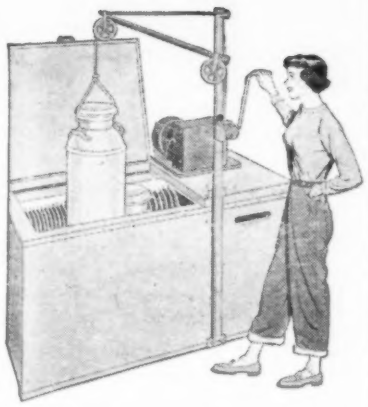
Eleven main points to remem-

★ *Only properly cooled milk is Quality Milk*

Westinghouse
Milk Coolers

NEW

EZ·does·IT
HOIST



Save Time and Energy—

Now anyone can hoist heavy milk cans without strain or aches. Just hook up can, turn the crank . . . up and into the Cooler goes the can. Self-locking . . . no danger of slipping. Cable is rugged, galvanized woven wire for heavy loads, long life. A new accessory for any Westinghouse Milk Cooler.

NEW POLAR COLD BOOSTER SPRAY—

Another new accessory for Westinghouse Milk Coolers. Floods continuous icy spray over can necks when less than normal loads are cooled. Circulates 80 gallons per minute for quick, efficient, neck-high cooling, regardless of water level or cabinet loading.

SEE THESE NEW ACCESSORIES AND WESTINGHOUSE MILK COOLERS AT YOUR WESTINGHOUSE DEALER TODAY

YOU CAN BE SURE..IF IT'S Westinghouse

WESTINGHOUSE ELECTRIC CORPORATION
Springfield 2, Mass.
Plants in 25 Cities • Offices Everywhere

Patch of weeds in the fence row got 2,4-D treatment from George Petersen, Woodbury county, Iowa, in May of last year. For this small job, he used his three-gallon knapsack sprayer.

ber in spraying weeds make up still another chapter. Each point in chemical weed control is discussed and explained.

Included are suggestions for spraying when the weeds are young; using a good source of water and good line strainers to prevent clogging; using mist nozzles and pressure of 30 to 35 pounds; using drop extensions in corn.

Agitation, speed, pumps and number of gallons of solution per acre are included.

The three weed experts stress the importance of carefully studying the directions accompanying whatever weed-killing chemical you are using.

They close the leaflet with a list of precautions for the use of 2,4-D. It is important to understand what 2,4-D will do and to follow instructions in using it.

Study of this bulletin will insure improved results when you fight weeds with chemical killers. You may get better kills and you might avoid crop damage.

Birdsfoot Clicks With Blue Grass

Birdsfoot trefoil shows more promise as an Iowa pasture crop than any other new legume, reports Iowa State College.

H. D. Hughes, ISC agronomist, lists these advantages of the deep-rooted perennial:

It works better as a companion crop to Kentucky blue grass than any other legume, including alfalfa and red clover. It also does well with timothy or orchard grass.

It will maintain itself for years without reseeding.

It is exceptionally resistant to heat and drouth.

It doesn't suffer from overgrazing and can be grazed the year it is seeded.

And it has as much feed value as alfalfa.

Only catch right now is that the price of birdsfoot trefoil is high. But Hughes suggests you get a few pounds and introduce it in permanent blue grass pastures. Pasture it a few years, then take off a seed crop to increase its acreage.

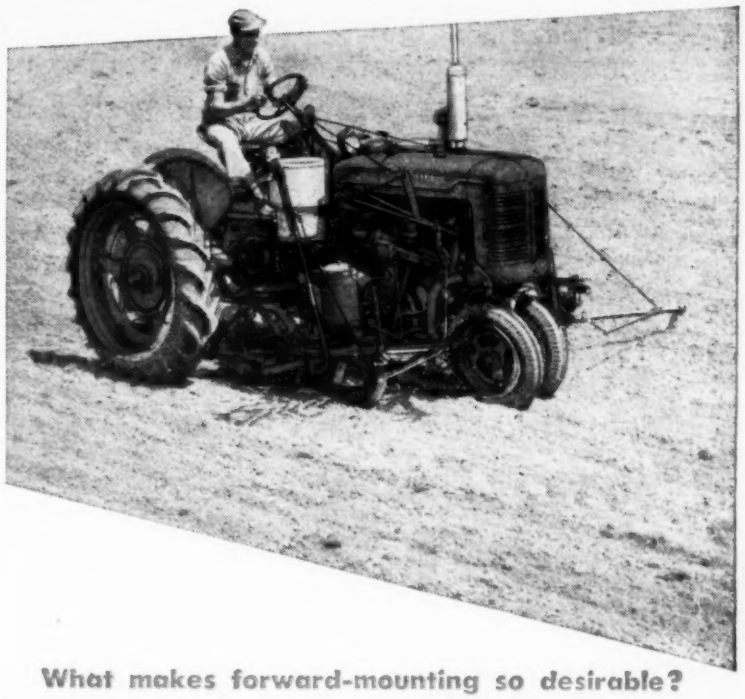
Be wary of imported birdsfoot seed, Hughes warns. It has not been tested here—and only the broad-leafed variety is adapted to Iowa.

What About the Forward-Mounted

"POPULATION PLANTER"

for the

2-ROW FARMALL C?



What makes forward-mounting so desirable? You can see what's going on *ahead*, just as with a horse planter—and with the C-220 you plant your crop at today's popular tractor speeds. You can keep your eyes on the guide mark and make rows *chalkline straight*—and also keep the job under observation.

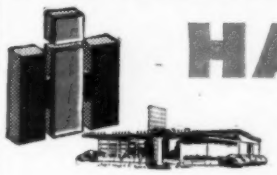
What's the advantage of the clutchless drive? With no clutch, the C-220 planter's seed plates rotate continually at a uniform, even rate. This means extreme accuracy at high tractor speeds. Constant drive means smooth seed plate action and accurate metering of kernels.

How does the C-220 give you "population planting" advantages? You make a simple adjustment of the C-220 planter's seed plate drive to populate a cornfield to its exact fertility level—by checkrow, hill-drop or drill planting. *No other planter built gives you this control.* Fertility level planting gives you top yields and low production costs. And the fertilizer unit for the planter can also be used for side-dressing while you cultivate the crop.

How does Farmall Touch-Control help? With a fingertip touch you can raise or lower the C-220 planter *on the go.* When you raise this planter the markers are raised and the wire is doffed automatically. Nothing to do but turn around!

Where can you get full information? From your International Harvester dealer. See him soon!

INTERNATIONAL HARVESTER



180 NORTH MICHIGAN AVE., CHICAGO 1, ILLINOIS
Listen to James Melton on "Harvest of Stars" every Wednesday evening over CBS.

Homemaking Department

Edited by **ZOE MURPHY**

Dishes are now no chore for Mrs. Eugene Winkelpleck, Boone county, Iowa. She has lots of hot soft water, a divided sink, uses a detergent.

"Tailor-Made Soaps"

WHAT do you use for washing dishes? Fifteen years ago, the answer would be, "Soap, of course." But now you're likely to be using one of the new synthetic detergents. The first of these came out in the early 1930's.

There are now so many detergents on the market that the housewife gives up and calls them all soap. But they're a lot different from soap. The correct name is "synthetic detergent." Another name is "wetting agent." Some call them "tailor-made soaps."

Detergents get away from that scum and curd you always have with soap. Remember the streaks you get when you wash windows with soap? Or that ring on the bathtub? Synthetic detergents make no film or curd, even in hard water.

To get each cleaning job done best, it's important to know which product to buy. Most all detergents make suds, or foam, but some more than others.

Mrs. Robert Herr, Story county, Iowa, cautions about that if you have a mechanical dish-washer. With one brand of detergent she mentioned, so much suds was churned up that two rinses wouldn't take it off.

They had had a water softener before they bought the dish-washer. In those days, Mrs. Herr generally used soap for the dishes. But sometimes the soft water would run out.

"Then," said Mrs. Herr, "I'd switch to a detergent until the water was softened again. The dishes dried out so much better with it—no wiping required."

Certain characteristics may cause you to choose between the synthetic detergents. One brand improved in popularity when it produced a "sneezeless" product. If your water supply is soft, maybe you'll like one without too much suds.

Some detergents are made for special jobs, the same as soaps. One company, for instance, has a product recommended for glassware, dishes, milk things, fine fabrics and woolens. Then it makes another "heavy duty" detergent recommended where the family wash includes heavy overalls and the like.

Synthetic detergents have revolutionized cleaning of the milking machine and separator. Inside the tubes of the milker is an ideal place for bacteria to grow. You know what that means, especially in summer. That's why we used to keep the tubes full of a disinfecting solution.

Soap never did work with milk. It forms a curd. And old-style dairy cleansers caused a whitish deposit on rubber and metal parts. But now you can flush the milker with a wetting agent and your worries are over.

If the whitish deposit has already collected, you can remove it by first soaking the utensils in vinegar solution, then brushing. Here's the formula one dairy equipment service man recommended:

To one gallon water add one quart white vinegar and one tablespoon detergent. This will even remove lime from a tea-kettle or hot-water tank, he claims. However, don't soak metal milk things in this without watching closely. Too long treatment will cause the metal to pit or become rough.

Once your dairy equipment is free of the whitish deposit, wash immediately after every milking with the proper detergent, and your scouring days are ended. You'll need to use a brush on certain parts. More so, if there is garget in the milk.

But in most cases the equipment will flush out clean. No oily droplets left inside milk tubes—consequently, no bacteria can live. A rinse with boiling water is always specified. This leaves equipment hot, so it will dry rapidly.

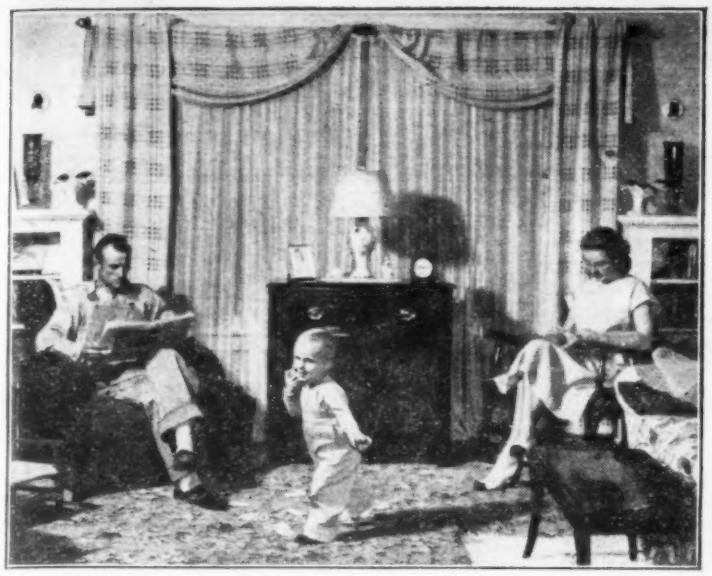
Then why will anybody continue to wash milk things the hard way? "Our separator is at the barn, and we have no hot water there," says one. But that doesn't stop Stanley Bourne, of Hardin county, Iowa.

He has to take out two 10-quart pails for milk and cream, anyway. So he carries these full of warm water from the house. Part he pours into a pail for scalding, and boosts up the temperature with a small electric water heater.

Warm water and detergent are poured in the separator tank right after the milk is rinsed out. This solution is caught in a pail. Then spouts, discs and other parts are whisked thru it before scalding.

A recent story of how one woman uses her electric dish-washer for the separator has caught the fancy of some people. But why go to all that work? The revolving separator bowl is its own best washer.

If you must wait before giving the final touches, let the bowl parts set in the detergent solution. But never let milk dry on the utensils before washing.



It's near bedtime for Quentin, so he's making the most of it. Quentin is the son of Mr. and Mrs. Ernest Johnson, Sac county, Iowa.

COUNTRY AIR

By ELIZABETH C. WHERRY

THE other day, I heard a sociologist say that country mothers had a hard time of it. Their children were continually saying: "What shall we do now?"

* * *

"Besides," said the sociologist, "who do they have to play with? There aren't near neighbors such as there are in every city block. Certainly, human relationships are about the most important things in the world. How do country children learn to get along with other people?"

* * *

The sociologist had something, I've no doubt, yet a lifetime of country living in me rose to the defense of country mothers. I don't believe country children ask "What shall we do?" any oftener than city children do.

* * *

To be sure, the old squabble between city and country living could go on forever. It is like the childhood question we used to debate on Fridays in country school: "Which is more important—the cow or the horse?

* * *

I always went for the horse side. And look what time has proved for me!

* * *

Could be that time will settle the question by completely decentralizing cities or by making the farmer unnecessary and giving him employment in factories making synthetic food pills.

* * *

But, unless a country mother is awfully stupid, her children can have a very rich life. It's long been my contention that country children have the richest background in the world, but aren't aware of it.

* * *

It never hurts anyone to be close to growing things, be they carrots, roses, lambs or goslings.

* * *

Don't you like to creep home after an argumentative meeting and straighten out your thinking in the quiet of your own dooryard or garden?

And as for the children—well, put on their overshoes and send 'em outdoors, and if they don't find enough puddles to wade in and enough grubby treasures uncovered by the melting snow to intrigue them, without yearning to go to play with the Smith kids, then they haven't much real initiative, anyway.

* * *

Certainly, Thomas Hardy didn't have his eyes on the movies when he wrote "The Return of the Native."

* * *

So much of the action takes place out on the heath and at night that it's hard to see how the natives found their way around, let alone ever having enough light to be able to put the story on the screen.

* * *

Granfer Castle, brisk old scalawag that he is, offers to sing a song at the wedding party. He sang: "She called to her lover from the lattice above: O, come in from the foggy, foggy dew."

* * *

Shades of Beryl Ives! Where did he find his folk-song about the "foggy, foggy dew"? Down south somewhere, probably among the descendants of Egdon Heathites. Seems to me I've heard that the purest English descendants are among the mountaineers of the south.

* * *

How am I going to find out? Where would I look it up? I'd like to know. Oh, well, it might take a lot of work. Why bother?

* * *

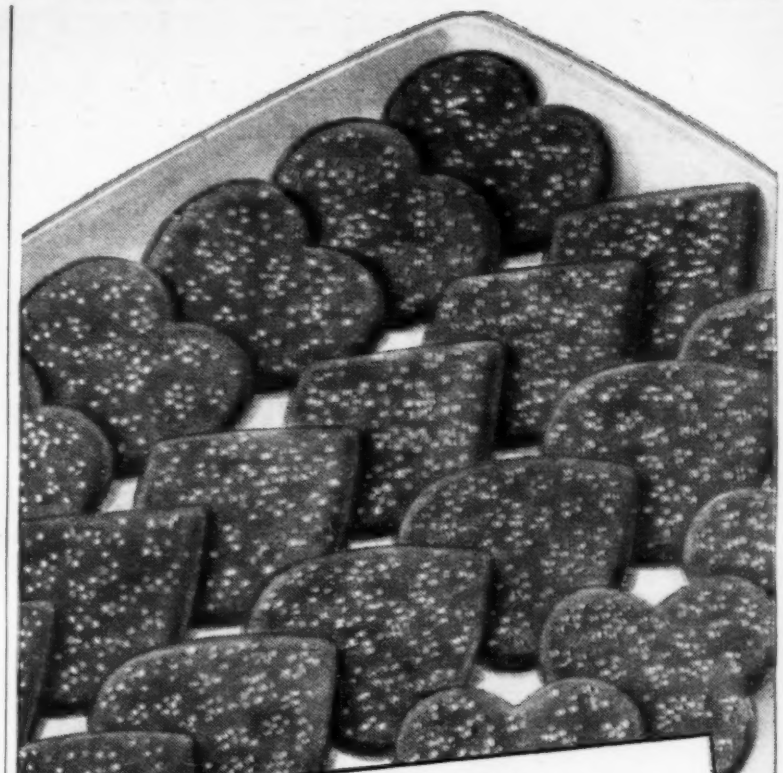
But I'd like to know how Granfer's song and Beryl Ives' song happen to have the same refrain. If Granfer sang it, it must have been a good old ballad.

* * *

By now the income tax is paid, the snow is gone, the oats cleaned, and the harness oiled (if there's still a harness on the farm).

* * *

How's for making a call on the new neighbors that moved in the first of March?



Robin Hood

Rolled Chocolate Cookies

Recipe by Rita Martin

1¾ cups sifted ROBIN HOOD ENRICHED FLOUR
1½ tsp. baking powder
½ tsp. soda
¼ tsp. salt
½ cup shortening
1 cup sugar
1 tsp. vanilla
1 egg
2 squares chocolate, melted
3 tbsp. milk

SIFT—dry ingredients together.
CREAM—shortening and sugar together until light.
ADD—vanilla and egg; beat well; then melted chocolate; then dry ingredients alternately with milk.
CHILL—to make rolling easier.
ROLL—to desired thickness, cut in fancy shapes.
BAKE—on greased baking sheets in moderate oven for about 10 minutes. Decorate with colored sugar for variations.

YIELD—4 to 5 dozen cookies.

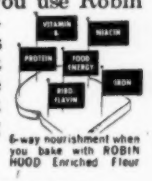
Robin Hood is the secret for better baking in our family

—says Mrs. Herman Behrens, Sioux City, Iowa.

"We've always used Robin Hood Flour in our family," says Mrs. Behrens. "When my two sons got married their wives asked me for my baking secret and that's what I told them—Robin Hood Flour. I don't know what I would do without Robin Hood. It's just wonderful!"

Thousands and thousands of women have echoed Mrs. Behrens' praises for Robin Hood Flour. You see—Robin Hood is different. It's a million dollar "secret blend."

Immense sums have been spent to perfect this great blend of flour. And when you use Robin Hood, you just have to get top results. There's a money back plus 10% guarantee in every bag that says just that. Next time you baking use Robin Hood Flour. See if it doesn't hold the secret of baking success for you, too.



6-way nourishment when you bake with ROBIN HOOD Enriched Flour

Look for valuable Aluminum-ware Coupon in each bag of Enriched Robin Hood Flour.

INTERNATIONAL MILLING COMPANY
General Offices: Minneapolis, Minn.

Enriched Robin Hood FLOUR

"America's Fastest Growing Flour"

Styles With The Snap Of Spring

No. 8408 — The scallops lend distinction to this youthful sun-back dress with a matching jacket. Sizes 12, 14, 16, 18 and 20.

No. 8436—Crisply tailored yoke style for juniors. With pocket flaps and sleeves which are comfortable. Sizes 11, 12, 13, 14, 16 and 18.

No. 8444—Get ready for an avalanche of complimentary remarks when you wear this stunning date frock. Sizes 11, 12, 13, 14, 16 and 18.

No. 8437—Two pretty dresses in one for the young girl—cap-sleeved dress and cool, sleeveless play frock. Sizes 2, 3, 4, 5, 6 and 8 years.

No. 8429—For parties or school wear. Cute dress with slanted closing edged in scallops. Sizes 1, 2, 3, 4, 5 and 6 years.

No. 1880—Just a yard of bright fabric to make this practical bib apron. Use scraps for pocket. Sizes 12, 14, 16, 18, 20, 40 and 42.

No. 1868—A beautifully slenderizing afternoon dress with side interest. Comes in a wide size range. Sizes 32, 34, 36, 38, 40, 42, 44 and 46.

No. 8432—Will make you look inches slimmer—simple and smart dress for dress-up events. Sizes 12, 14, 16, 18, 20, 40 and 42.

No. 8336—Beloved by women of larger size is this graceful afternoon frock with its neat gored skirt. Sizes 34, 36, 38, 40, 42, 44, 46 and 48.

Patterns are 25c each, in coin or stamps—coin preferred. The New FASHION Book is also 25c. Send all orders to Pattern Department of Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa. CAUTION: Be sure to give your name and address when writing.

Mrs. W. H. Royer, a farm woman of Dallas county, Iowa, does needlepoint in the evenings and gives beautiful presents.

Needlepoint for Hobby And Pastime

Iowa Woman Does Needlepoint For Herself As Well as For Her Children and Friends

JEAN ROYER, seven years old, was presented with a new stool to use in front of her dressing table.

This wasn't exactly a surprise for Jean, because her grandmother, Mrs. W. H. Royer, a farm woman of Dallas county, Iowa, had to consult her about the colors for the needlepoint top to cover the stool.

This was an especially nice gift for a little girl. The stool itself is a round piano stool that can be turned up higher as Jean grows taller. The skirt for the stool will match the curtains in Jean's room, and the top of needlepoint in pastel colors will be beautiful as long as it is in use.

Mrs. Royer has made about a hundred pieces of needlepoint. She started about ten years ago with a pillow-top—a conventional design done in shades of green.

Since then, Mrs. Royer has made any number of chair seats and backs, in both naturalistic and formal designs.

She has made several elaborate wall-hangings that are beautiful and colorful. The shading of the colors is a real work of art.

Practically all of the chairs in Mrs. Royer's house are finished with needlepoint. She has a dozen straight chairs finished in this way in a Louis XIV design. There are six rockers and about that many foot-stools. Each room in her comfortable farm home shows her handwork.

Besides this, she has given away a great many pieces to her children, her nieces and nephews and other relatives.

Everyone should have a hobby. Some people collect baskets or dolls or pitchers; other folks work with their hands. Mrs. Royer's choice of needlepoint as a hobby has had its ups and downs.

During the war, it was almost impossible to get the canvas for her work. Much of the material used in needlepoint is imported. It was hard to get yarn—it's still high in price—but somehow Mrs. Royer has been able to keep busy.

After she has filled in the background, Mrs. Royer blocks and stretches her finished work. If the finished article is for a large piece of furniture, she has the work done by an expert in that field. But if it's a small piece—such as the stool for Jean's room, or a foot-stool—then she does it herself.

Mrs. Royer has been active in all kinds of farm work for a great many years. She has worked with the Farm Bureau in her county, with her church, and her community.

She is not only a Master Farm Homemaker of Iowa, but she is president of the National Guild of Master Farm Homemakers.

Since the death of her husband, two years ago, Mrs. Royer has continued to live on the home farm. She has a flock of 500 chickens, and does a good bit of outside work.

Her hobby, Mrs. Royer has found, keeps her evenings occupied and gives her the satisfaction of creating things both beautiful and lasting, which make wonderful gifts for those she loves.

How To Store Cookies

USE a stone or pottery jar for moist cookies. Keep a piece of fresh bread or apple in the jar.

Use a tin container for crisp cookies. Ordinary coffee cans may be used if covers fit tightly.

Do not store both types in one container, as the crisp cookies will become limp after picking up moisture from the moist cookies. If crisp cookies should soften, dry them out in a warm oven for a few minutes.

FREE 28-page booklet, "The Art of Coffee-Making." Write to Hills Bros. Coffee, Inc., San Francisco 19.

Trademarks Reg. U.S. Pat. Off. Copyright 1949—Hills Bros. Coffee, Inc.

PHILGAS IS THE IDEAL FUEL FOR HOMES BEYOND THE GAS MAINS

- FOR COOKING
- FOR REFRIGERATION
- FOR AUTOMATIC WATER HEATING

My! How your family will enjoy piping hot biscuits . . . juicy roasts . . . and the tender, tasty vegetables you cook to perfection with Philgas.

Think of it! No more coaxing stubborn, old-fashioned stoves. Just a twist of your wrist . . . your Philgas range burners light automatically — no matches needed. Your choice of many heat speeds, too.

Right now, your Philgas dealer has bargains in beautiful Philgas ranges. See him! He'll be glad to explain how easy it is for you to have a beautiful Philgas range and a simple, economical Philgas system helping you cook delicious meals from now on.

For full information about Philgas and Philgas appliances, write Phillips Petroleum Company, Philgas Division, Hubbell Building, Des Moines 8, Iowa.

PHILGAS—"THE FLAME THAT IS MORE THAN MAGIC"

PHILLIPS PETROLEUM COMPANY

PHILGAS DIVISION

Mrs. Willard Nash, Warren county, Iowa, has her lovely 100-year-old dishes in a special cupboard in her sunny dining-room.

We're Moving Again This Year

Farm Woman Tells Hows It Feels When You Change To A New Neighborhood

"WE'RE moving again! And I dread it something awful. I know I should be used to it by now—this is the fourth time we have moved—but I'm not. In fact, I dread it more this year than ever before.

No, it isn't the work of fitting my things into strange rooms—I like that part of it. This will be the nicest house we've ever lived in, and I like the furniture moving part.

It's the fitting my family into the new neighborhood that I dread. We don't know a soul over there. The nearest neighbors are a quarter of a mile away, and I don't know if they neighbor much.

Yes, we've always had pretty good luck in finding good neighbors and new friends, so I suppose I shouldn't worry; but you never know when your luck will change.

How did we "break the ice" when we came here four years ago? Well, to tell the truth, we didn't have to do a thing—the neighbors did it all.

The woman across the road knew we were coming from away across the county, and she told the old tenants to tell us that she'd have dinner for us that day, so we'd have a hot meal and still not have to waste the time going to town for it.

The truck didn't get here until about noon, and I couldn't even have made coffee for the men. There were six of us to feed, all strangers, but she did it, and we were friends from then on.

There's a "Kitchen Review" club here, too, and she took me to it the very next time it met. It's really a "Friendship" club of the women in this community, but our husbands call it the "Kitchen Review" because we are always talking about the new kitchens we see when we go to each others' houses.

You say if there isn't a neighborhood club, I can get acquainted thru the church? Sure I can, if there is a rural church nearby, where everybody goes. A church we belonged to when we were first married always had a "Glad to Meet You" party the last of March.

Everybody in the adult class had to bring a new family. There was always a lot of moving in that neighborhood every year. Everybody had to introduce themselves as part of the program, and tell one good trait and one bad trait they had. If some of the old ones couldn't think of a good trait for themselves, there was always someone else who could.

You want to know if we belong to some farm group? You bet we do. Henry is the first one to pay his dues every year. Don't we take our membership with us when we move and get transferred to the new chapter?

Well, it's like this: We can take our transfer right to the new county headquarters, and have them put our name and address on the mailing list, but seems like that's one of the things we are always putting off.

You say we've got three ways of "breaking the ice," and that I shouldn't worry? Maybe I shouldn't; but I like to be friendly, and I know a newcomer has to sort of wait to see what the first move by the old-timers will be.

I'm anxious to do my part if I see that they want to be friendly. I'm always worried, and never really feel settled until the ice is broken. Maybe we'll have good luck again this year.

A friendly neighborhood means as much to me as good farm land means to Henry. I sort of wish they would advertise that along with the plow-land, so a body would know what they're getting into.—R. R. D.

COOKERY CORNER

CREOLE BEEF WITH MACARONI

1 pound ground beef
3 tablespoons fat
1 tablespoon chopped onion
½ cup chopped celery
2 tablespoons flour
2 cups canned tomatoes
½ teaspoon chili powder
1 teaspoon salt
1 teaspoon Worcestershire sauce
1 cup water
Cooked macaroni

Brown the meat in two tablespoons of fat. Brown onion and celery in one tablespoon of fat. Add flour. Stir well. Add tomatoes to make a sauce. Add seasoning, meat and water. Cook slowly 10 minutes. Serve on hot, cooked macaroni. Makes six servings.

CARAMEL ICING

1 cup brown sugar
¼ cup milk
3 tablespoons butter
1 teaspoon vanilla
Powdered sugar

Boil sugar and milk three minutes. Take off fire and cool. Add butter and vanilla and spread with the powdered sugar.—Mrs. Fred Lamp, Polk County, Iowa.

ORANGE ICE CREAM

1 cup light cream
1 cup sugar
1 cup water
1 cup orange juice
3 tablespoons lemon juice
1 tablespoon grated orange peel

Freeze cream quite firm in freezing tray. Bring sugar and water to a boil. Cool and add the orange and lemon juice and grated peel. Freeze. Whip the frozen cream. Beat frozen fruit mixture. Combine with cream. Finish freezing. Makes six servings.

WHITE BREAD

2 cakes or packets of fast-rising yeast in half a cup of warm water
2 cups milk, scalded and cooled
2 cups water
½ cup sugar
½ cup shortening
3 tablespoons salt
About 12 cups flour

Into milk and water, lukewarm, put shortening, sugar and salt, add six cups flour and beat to a smooth batter. Add yeast and water, by now very light, and again beat well. Sift two cups flour over it smoothly and set to rise in a warm place. It will double in bulk in about 45 minutes. Add rest of flour gradually, and beat and knead to smooth dough, easily handled. Put in a lightly greased bowl and let rise until double in bulk. Make into loaves or rolls. Let rise again till light, and bake in pre-heated oven 45 minutes. Makes four loaves.—Susan (Mrs. Fred) Benson, Marshall County, Iowa.

MOLASSES DROP COOKIES

1 cup fat
1 cup sugar
2 eggs, beaten
1 cup molasses
5 cups all-purpose flour
1 tablespoon ginger
1 teaspoon salt
1 tablespoon soda
2 cups chopped dates or raisins
2 cups chopped nutmeats
1 cup warm water

Cream fat and sugar; add eggs and molasses. Sift flour with ginger, salt and soda. Alternately add flour and water to the fat, sugar and egg mixture. Mix well. Add raisins and nuts. Drop by teaspoonfuls on lightly greased baking sheet. Bake at 375 degrees for about 10 or 15 minutes, or until cookies spring back when lightly touched.

SALMON ROLL

1 pound can red salmon or other fish, flaked and boned
¼ cup mayonnaise
2 tablespoons chopped parsley
¾ teaspoon salt
1 teaspoon lemon juice
1 teaspoon minced onion
1/16 teaspoon pepper

Mix together until blended, then make your favorite biscuit dough. Roll out into 7x15-inch rectangle. Transfer to lightly greased heavy baking sheet. Spread salmon mixture down center of dough to within two inches of either end. Fold over edges. Roll over so lengthwise seam is underneath. Tuck ends under roll. Make slashes along top for steam to escape. Bake 12 to 15 minutes at 425 degrees. Place on hot serving dish. Garnish with lemon wedges and parsley. Serve hot with creamed vegetable, such as asparagus or peas. Serves six to eight. — Mrs. Herbert Andrews, Buena Vista County, Iowa.

DATE PUDDING

3 eggs
1 cup sugar
½ cup fine cracker crumbs
1 teaspoon baking powder
1 cup chopped nuts
1 cup dates, cut up
1 tablespoon water
Dash of salt

Beat the three eggs for five minutes; then add the other ingredients and bake in a moderate oven for about 35 minutes.—Mrs. Dale Wick, Henry County, Iowa.

Order A Copy Of Our Cook Book

If you haven't ordered a copy of our new cook book, you'll want to do it now. The women who have won prizes in the culinary department at Iowa State Fairs have generously shared their recipes with you.

The cook book costs TWENTY-FIVE CENTS. Order your copy now. Address your letters to the Homemaking Department of Wallaces' Farmer and Iowa Homestead, 1912 Grand Avenue, Des Moines, Iowa.

Good Things To Eat...

by MARY FOSTER

NOW you can bake perfectly marvelous cakes *every time* with a new, "Easy-Mix" recipe we have just developed in the Mother's Best kitchens. We baked more than 200 cakes just to perfect this recipe.

Positively amazing how it turns out wonderful cakes when you use *Mother's Best Enriched Flour.* Even men-folks, who never baked a cake before in their lives, have turned out beautiful cakes this new, easy way. I asked them to try it just to prove how easy it is.

Here is the recipe for a basic white cake. You can make endless variations from this for all kinds of cakes.

For a yellow cake, for example, use two whole eggs instead of the one-half cup of egg whites, as given here.

Try it soon. And be sure to use Mother's Best Enriched Flour. This recipe has been developed exclusively for Mother's Best—and for that reason we can't guarantee results with any other flour.

WHITE CAKE

Use only one bowl. So easy to mix, results are so positive you should never have a failure.

1. Put **one-half cup shortening** in mixing bowl. Add **1½ cups sugar,** stirring in one-third of sugar at a time.
2. Measure and sift together **2 cups Mother's Best Enriched Flour.** (The flour that is twice-tested for seven different baking qualities), **3½ teaspoons baking powder** (double acting), **1 teaspoon salt.**
3. Add **one cup milk** (do not use cold milk, but warm to luke-warm). Stir all together, beating about two minutes until batter is smooth and creamy and free from lumps. If you use an electric mixer, be careful not to over-mix. Use slower speeds only until batter is smooth.
4. Add **one-half cup egg whites** and one teaspoon vanilla. Blend in well.
5. Bake in 8-inch layers in a preheated oven 350° for 30 to 35 minutes.
6. I suggest a white icing, covered with cocoanut.

Keep them GLOWING with Health

Because Mother's Best Flour is ENRICHED, everything you bake with it contains several of the B-Vitamins and Iron. Treat your family to your own healthful baked foods made with Mother's Best Flour.

Women to Europe

When you read this the 30 midwestern women who flew to Europe with me, will be on the last leg of our visit to nine western European countries. We expect to be back March 23. Hear of our experiences on THE MARY FOSTER PROGRAM. WHO 8:30 AM; KMA, 11:30 AM; WMT, 4:15 PM; WNAX, 10:15 AM; WJAG, 8 AM; KOWH, 11:30 AM; KMMJ, 1:15 PM, and every Sunday at 3:30 on WOW.

Serve "PHILADELPHIA SCRAPPLE" and DIXIANNA PANCAKES for a Breakfast Treat

One of the many delightful dishes of the Pennsylvania Dutch is "scrapple."

It's a home-made "sausage," a favorite Pennsylvania breakfast for hundreds of years.

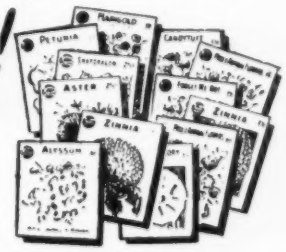
Combine two cups of ground pork with two cups of ground beef, and three cups of meat broth. Heat to boiling. Add two teaspoons salt, ¼ teaspoon pepper, 1½ teaspoon sage. Sift in one cup of corn meal, slowly, stirring constantly. Cook 30 minutes. Add a few grains cayenne. Pour into loaf pan, and chill until firm.

When breakfast time rolls around, cut off as many slices as you need, and fry until well browned. Save the rest for future breakfasts.

Serve with DIXIANNA PANCAKES, hot off the griddle. If you haven't yet tried DIXIANNA PANCAKES you have a thrill coming. Most wonderful pancakes you ever ate, you'll say. And so easy to mix. Simply add milk (I like to add an egg, as well) and mix. They rise perfectly. Bake to a rich, golden-brown. You'll like them.

The secret of Dixianna Pancakes is that this mix is made from an old down-south recipe — the kind of rare treat that has made the south world-famous for good cooking. Try Dixianna Pancake Mix soon. Get regular Dixianna in the yellow package, and Dixianna Buckwheat Mix in the brown package.

Here's a Real Bargain! $2.30 Flower Garden Only 25¢



Think of it—you can have a complete "Flower Garden" almost for the asking!

For only 25c and the label from any size sack of Mother's Best Enriched Flour I'll send you 12 packets of genuine W. A. Burpee Flower Seeds—actual value $2.30.

You get Zinnias, Snapdragons, Marigolds, Asters, Petunias, Alyssum, Mixed Annuals for Cutting, Mixed Annuals for Bedding, Morning Glory, Candytuft, Forget-Me-Nots. Yes—a full $2.30 value in the famous Burpee Seed Catalog.

Don't put off — send 25c and your Mother's Best Flour label now, while this offer lasts. **Address MARY FOSTER, Box 1217-WF Omaha, Nebraska.**

Mother's Best ENRICHED Flour

EVERY PACKET GUARANTEED

- LABORATORY TESTED to assure high germination.
- GARDEN TESTED to search out the really better varieties.
- TABLE TESTED to assure you tenderer, finer flavored vegetables.

This is the year to have a "grocery store garden." It will pay you. In more ways than one! Your family will enjoy an abundance of finer, fresher foods. Your cost will be only a fraction of what you would have to pay if you bought it. The way to bigger yields of the really better varieties is to plant Earl May Triple-Tested Seeds. EVERY PACKET GUARANTEED.

AT YOUR LOCAL DEALERS OR NEAREST EARL MAY STORE

EARL MAY SEED CO. SHENANDOAH, IOWA

Do you suffer distress from

'periodic' FEMALE WEAKNESS

With Its Nervous, Highstrung Feelings?

Are *you* troubled by distress of female functional monthly disturbances? Does it make you feel *so nervous*, cranky, restless, weak, a bit moody—at such times? Then do try Lydia E. Pinkham's Vegetable Compound to relieve such symptoms! Women by the thousands have reported remarkable benefits.

Pinkham's Compound is what Doctors call a uterine sedative. It has a grand soothing effect on one of woman's most important organs. Taken regularly—Pinkham's Compound helps build up resistance against such distress. It's also a great stomachic tonic! All drugstores.

Monthly Female Pains

Pinkham's Compound is *very effective* to relieve monthly cramps, headache, backache, —when due to female functional monthly disturbances.

Change of Life

If the functional 'middle-age' period peculiar to women makes *you* suffer from hot flashes, weak, highstrung, irritable feelings—try Pinkham's Compound to relieve such symptoms. It's *famous* for this purpose.

Lydia E. Pinkham's VEGETABLE COMPOUND

Earliest Tomato

JUNG'S WAYAHEAD has big red fruits ripe as early as July 4th. Regular price 15c per pkt. but to introduce Jung's Quality Seeds we will send you a trial pkt. of this Tomato, Tendercore Carrot, All Cream Lettuce, Earliest Radishes and a large pkt. of

SUMMER GLORY FLOWERS that will bloom from early summer until hard frosts, all for 10c; in Canada 25c.

FREE Our beautiful full color catalog of bargains in Seeds, Plants, Shrubs, Hybrid Corn and Certified Seed Grain. Coupon for rare Premium in each catalog.

J. W. JUNG SEED CO., Dept. 24, Randolph, Wis.

6 Welch Concord GRAPES 2-Yr. $1

3	Downing or Glendale Gooseberry	$1.65
3	Red Lake Currants, 2 yr.	1.25
25	Cumberland Blk. Raspberries	2.50
50	Asparagus and 5 Rhubarb	1.00
200	Dunlap or 100 Gem Everb. Strb's	2.95
3	Canadian Red Rhubarb, 2 yr.	1.50
5	Red or Yell. Delicious Apple, 4 ft.	2.50
2	Mont. & 1 Ea. Richmond Cherry, 4 ft.	3.00
10	Lombard Poplar or Chinese Elm, 4 ft.	1.00
3	Golden Weeping Willow, 4 ft.	1.00
6	Tartarian Honeysuckle, 18 in.	1.00
3	Paul's Scarlet Climb. Rose, 2 yr.	1.75
4	American Bittersweet Vines	1.00

These big values are all POSTPAID. With orders over $5 you will receive 3 REGAL LILIES FREE. Order direct from this ad and ask for our BEAUTIFUL full-color CATALOG.

WELCH NURSERY, Box W2, Shenandoah, Iowa

Lois helps her mother get dinner. She is the daughter of Mr. and Mrs. William Ficken, of Boone county, Iowa.

Refrigeration Makes Better Living

The Modern Refrigerator Does More Than Preserve Food. It Makes Cooking Easier

THINGS are being made handier for the cook all the time. Refrigerators, for example. The John Koch family, of Grundy county, Iowa, until recently had used an old-style electric. Now they have an up-to-date eight-foot model. Said Mrs. Koch: "We didn't know what a refrigerator was until we got this one."

Hers is the conventional style. Frozen food and ice cube compartment (which is also the cold-making unit) is suspended at upper right.

It is larger than in her old one. "More room than for just ice cubes," she said. And, being off to one-side, it makes other storage more handy.

Immediately below is a storage tray for fresh meat and the like. It runs a little colder than the main part of the refrigerator—36 degrees, perhaps, when the rest is 38 degrees.

At the bottom are two glass-covered trays for fruits and vegetables. These are given various names — "hydrator," "hydrovoir," or just plain "crisper." They maintain a moist cold for salad materials. Glass tops serve as the next shelf. And they also let one see what's there.

Brand-new feature is the "butter conditioner." It's recessed in one wall and holds one pound of butter. It has a refrigerating control all its own. So you get away from butter that's too hard. "When you take it out, it's just right to spread sandwiches for school," said Mrs. Koch.

Later, as we gazed at a new model in a store window, a woman passing by volunteered: "That butter container's a fine thing." When we asked the next farm woman we saw what she liked most about her new refrigerator, she immediately replied: "The butter container." So that just about makes it unanimous.

One woman said its location on the inside wall was inconvenient. Now they've got away from that. Latest models have the conditioner on the inside of the door.

You'll find now that ice cubes are easy to get out of their trays. Flexible metal dividers, operated by a handy tool, let you remove just what you need.

Some cabinets have slots so you can space shelves any height you wish. Trays and shelves pull out conveniently. Next to dependable operation, storage convenience is the first thing to look out for.

There are two types of electric refrigerators. One is the conventional type, such as Mrs. Koch's. It can accommodate more frozen food packages than older models—but not so very many. Nor will it keep them too long a time.

Deluxe models have a double-wall door on this compartment. It can hold food around 10 degrees. At best, it's for temporary storage and for freezing ice cubes, desserts and the like. You can't expect it to perform like a deep freeze.

The other type is the "cold wall" refrigerator. It has a frozen food compartment clear across the top. It will freeze and store food as well as any home freezer, and is refrigerated the same way.

No cold coils are visible in the box. They are built in the wall, just outside the smooth interior. So the "cold wall" is exactly that.

On this type there are two separate controls. You can set the one for the freezer as low as 15 degrees below zero and the other at 38 degrees above. Both are generally operated by the same unit.

The motor is usually one-fourth horse-power, compared with one-eighth in the conventional type. However, one company makes a 10½-foot box of this type with two independent units. A one-sixth horse-power motor operates the freezer and a one-eighth horse-power takes care of the eight-foot refrigerator.

Mrs. H. G. Fredericks, Franklin county, Iowa, has a refrigerator of the cold wall type. After four

You can plan meals ahead of time with a home freezer. Mrs. La Vern Zunkel, Boone county, Iowa, makes constant use of hers.

months' use, it still doesn't need defrosting. (They say you'll need to defrost every six months.)

She doesn't have to cover food to prevent drying out. Droplets of moisture could be seen on the walls. They are never cold enough to frost over. Water drains down to a drip-tray beneath.

It's in the frozen storage compartment that the frost collects. Mrs. Galen Ruch, Marshall county, Iowa, told how she defrosts hers:

"First you shut it off," she said. "Then take the packages out of the frozen storage and set a pan of hot water there. The ice soon drops off so you can easily pick it out, and the water drains into a pan you set just below."

The frost drops into the meat tray below. It helps to leave the doors open, whatever type you have.

One make of refrigerator has a device for automatic defrosting. Set a clock on the door for midnight. At that time, the electric current goes off and stays off till defrosting is over. Then the motor starts again automatically, and you find food properly cool the next morning.

Another make has a defrosting indicator. When a little red knob is completely frosted over, then it's time for defrosting. Neither of these devices apply to the cold wall refrigerators.

Ask anyone with a ten-year-old refrigerator, and they may say: "We've hardly had any trouble, except when a belt wears out." Or maybe the motor has gone bad from lack of oiling.

The new models are constructed so as to eliminate all of that. No belt—no oiling. The sealed-in unit will run for years, trouble-free.

What size of refrigerator should you buy? One with a capacity of six cubic feet used to be a common size. Now the eight-foot size is most popular. Many buy the 16-foot. The Fredericks refrigerator is that size — two feet for frozen storage and eight feet for the refrigerator proper.

"My old seven-foot had room for only one package of frozen meat," said Mrs. Fredericks. "This one can hold 72 pounds. But we put everything in the freezer—ice cream, berries, rolls and other baked food.

"Our children are grown. There are just two of us and the hired man. We got this rather than a regular refrigerator and a home freezer. For, if we should move to town, it is enough—along with a town locker."

There were also three in the Levi Cook household, in Marshall county, Iowa. But they have a 10-foot conventional refrigerator, plus a home freezer, plus a locker in town.

When asked if the refrigerator were not too large, Mrs. Cook's answer was an emphatic "No!" "When we butcher a hog and a beef at the same time," she said, "we certainly can use all the space we have."

Still another family has a combination consisting of a refrigerator, a small locker in the kitchen, and a larger one down in the basement.

"I would recommend having two eight-foot freezers rather than one of the 16-foot size," stated a dealer in Hardin county, Iowa. "It's very handy to have one in the kitchen and one in the basement. Maybe you would have fruit and vegetables in one and meat in the other.

"Then, two men can handle a refrigerator up to 10 feet in size, and it will go thru any door. The large ones are hard to get into a house.

"Also, your family may change in size. Perhaps a son will want to take one freezer, when he gets married. And two smaller ones are actually cheaper to operate than one large one."

Experts are careful to point out that a small freezer never should be overloaded. The motors are built for intermittent running. So it's best, when you want to do quick freezing, to put only small quantities in at a time.

Storage racks are handy equipment for any chest-type freezer. By lifting out an upper rack, you can reach the larger packages laid in the bottom.

Freezers of 15 cubic feet and larger may have a separate compartment for sharp freeze. Some others have a sharp freeze end, where more contact is possible against the cold wall or bottom. One chest type has dividers containing freezing coils.

Always have a thermometer in your freezer or refrigerator. Then you can always tell what kind of a job it is doing. A built-in thermometer is supplied with some of the new models.

Wait Lady!

That's FOLGER'S Coffee...

Not just a cup of coffee—but a VERY SPECIAL FLAVOR

Taste it Critically

If you're about to try Mountain Grown Folger's Coffee for the first time, you'll want to taste it very critically. For this is a very famous coffee flavor, and only by tasting it can you learn why. So, do taste your first cup of Folger's carefully and thoughtfully. Note its unusual richness and vigor, its keen, winey tang, and the delicious individuality that simply cannot be put into words.

Enjoy it More

Folger's is more than just a cup of coffee, it's a very special coffee flavor. For Folger's is a unique blend of certain highly prized, Mountain Grown coffees. These coffees are specially selected for flavor and richness, then blended in a special way. The result is coffee flavor that has never been matched. Won't you *try* it soon—*taste* it critically—*enjoy* it as you never enjoyed coffee before?

TRY USING 1/4 LESS

The Folger Flavor is so extra rich, you are urged to try using one-fourth less than with lesser flavored brands.

COPYRIGHT, J. A. FOLGER & CO., 1949

THERE'S A MOUNTAIN OF FLAVOR IN EVERY SPOONFUL

Cut Soap Costs 1/2

Put Aside Expensive Flakes and Powders

★

Wash EVERYTHING with

BLUE BARREL SOAP

• Heaps of Suds—Even in Hardest Water • Floors, Woodwork—Spotless in a Jiffy • Glassware Sparkles, Dishes Gleam • Clothes Come Whiter, Brighter—*Faster*

COMPARE BLUE BARREL with anything you've ever used—compare the **COST**—compare the **RESULTS**

The Big White Bar Goes Twice As Far

Make Spring Cleaning Easy

ONE YEAR WRITTEN SERVICE GUARANTEE

ELECTROLUX

REBUILT BY ACE EXPERTS

COMPLETE WITH ATTACHMENTS

$16.95 MODEL 11

GREAT FOR

Rugs, Floors, Mattresses, Upholstery, Blankets, Mouldings, Radiators, etc.

ACE VACUUM STORES, Dept. W

Write to Nearest Store:

DES MOINES, IOWA, 920 GRAND AVENUE
SIOUX CITY, IOWA, 812 PIERCE STREET
MINNEAPOLIS, MINNESOTA, 33 S. 8TH STREET

If R.F.D. Please Give Directions

Gentlemen: I would like a Free Home Demonstration of a beautiful REBUILT ELECTROLUX complete with 7 ATTACHMENTS for $16.95

NAME .....

ADDRESS .....

CITY ..... STATE .....

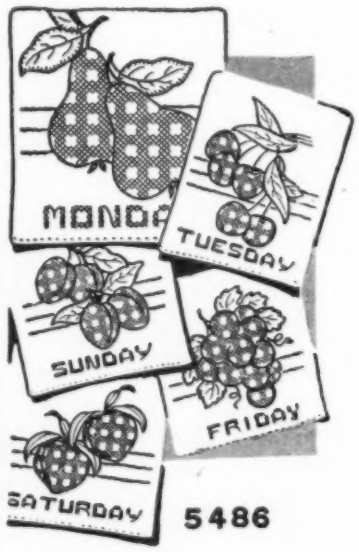
DETROIT PUBLIC LIBRARY

SAFETY FIRST!! Do your buying from firms advertising in Wallaces' Farmer and Iowa Homestead. If you do not find in Wallaces' Farmer and Iowa Homestead the articles you want to buy, just let us know what you want and we will be glad to give you names of reliable firms.

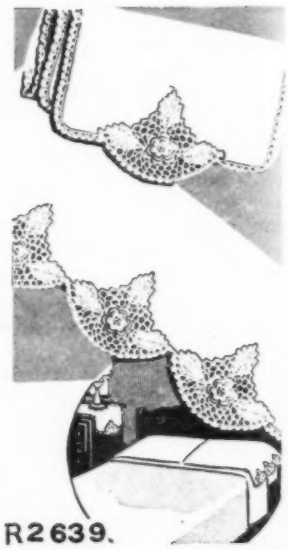
Relax With Needle

No. R-2669—Playful little animals measuring from 2 to 4½ inches are fun to embroider on baby bibs, caps, pajamas and dresses. Outlines may be used as a painting guide to decorate nursery furniture.

No. 5486—Luscious 4 and 5-inch fruits embroidered in popular "gingham" cross-stitch add gaiety to kitchen and dinette. Embroider the colorful apples, peaches, plums, strawberries and grapes on dinette drapes, table linens and tea towels.



5486

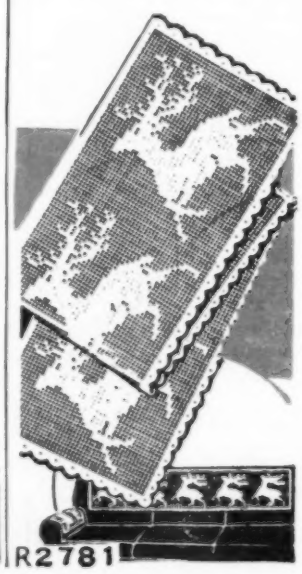


R2639.

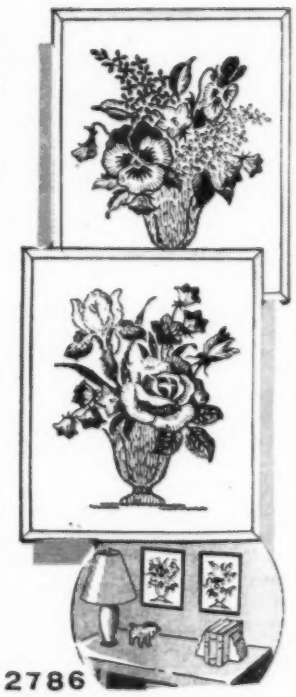
No. R-2639—Frosty white lace medallions high-lighted by Irish roses, pretty up everyday pillow cases and bureau scarfs easily and inexpensively. Complete instructions and stitch illustrations.

No. R-2781—Davenport set was adapted from a 100-year-old pillow sham. Easily crocheted from heavy cotton and crystal-clear filet chart.

No. R-2786—Floral bouquets embroidered in soft wools make attractive pictures. Try using a finer yarn for small flowers and leaves and working the rose, iris and pansies in heavier wool or thread.



R2781



R 2786

Designs are 20c each, in coin or stamps—coin preferred. The New Spring and Summer FASHION Book is 25c. Contains lots of information and a pattern free. Send orders to the Pattern Department, Wallaces' Farmer and Iowa Homestead. CAUTION: Don't forget to give your name and address every time you write us.

It's the *precision* system — delivers full volume from deep wells; quiet, dependable, costs less to run. Write:

BAKER MFG. CO.
EVANSVILLE, WISCONSIN

Please send information on: Dept. D
☐ Deep-well water systems
☐ Windmills ☐ Pump jacks
Name .....
Route or Street .....
City ..... County ..... State ....

"Goodbye to COFFEE NERVES"

"Since switching to POSTUM I no longer suffer irritability and fatigue due to nervousness—and life's so much pleasanter!"

SCIENTIFIC FACTS: Both coffee and tea contain caffein—a *drug*—a *nerve stimulant*. So, while many people can drink coffee or tea without ill-effect—others suffer nervousness, indigestion, sleepless nights. But POSTUM contains no caffein—*nothing that can possibly cause nervousness, indigestion, sleeplessness.*

MAKE THIS TEST: Buy INSTANT POSTUM today—drink it exclusively for 30 days—*judge by results!* . . . INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

THIS YEAR — RAISE A MONEY-MAKING FLOCK
FEED YOUR CHICKS
VICTOR
CHICK STARTERS
(GRANULES OR MASH)
CRETE MILLS . . . CRETE, NEBR.

NO NEED TO DREAM LONGER

about a business of your own and earnings according to your ability! We will furnish you a stock of 140 personal, home and farm necessities on credit to sell in your locality. You pay low wholesale prices when goods are sold. Products guaranteed to give 100% satisfaction. Bargain sales, premiums, free advertising aids, help you make quick, easy sales. Experience unnecessary. We send Sales Guide book, other helps. Business established 92 years. Mail penny postcard for full details. The Ward Company, Dept. WF, Winona, Minn.

PROFESSIONAL 7" x 5" ENLARGEMENT 10c

Sensational introductory offer! Send snapshot or negative, this ad, and 10c. We'll send you a beautiful 7x5" enlargement! Or, Kodak roll developed and printed (with free coupon) only 25c; or 8 giant prints from roll, 30c. Reprints from negatives—any quantity—regular size, 3c; Giant size, 4c. Satisfaction guaranteed. Immediate delivery. No delay. Write for Free Mailers, Free Premium offers. AMERICAN STUDIOS, Dept. 342, LaCrosse, Wis.

HIGHEST CASH PRICES PAID
For New Goose and Duck Feathers

Send yours to an accredited house. Send sample for price on old feathers. Cash 24 hours later.
WEST CHICAGO FEATHER CO.
4456 W. Fillmore Chicago, Ill.

Photo Finishing. This ad and 25c gets you 10 oversize reprints or 5 4x6 enlargements. JUMBO PRINTERS, Lake Geneva 4, Wisconsin

You Can Depend on Your
LOCAL IMPLEMENT DEALER
for
Quality Products and Friendly Service

Personal Problems

KEEP MUM

DEAR LUCILE: I'm in a funny spot. I have two friends, who seem to be good friends when together, but who come to me and talk about each other something terrible.

Each of these friends has a 'teen-age daughter, and each disapproves of the way the other is bringing up her girl. They criticize the way each other dresses; the places they go, and the things they do. Still they run around together all the time.

I don't like to side with one or the other; but they almost force me to say things once in a while. What would you do in such a case?—Caught-in-the-Middle.

CAUGHT: I'd keep mum as an oyster, no matter how much I wanted to talk. Anything you say would probably be used against you.

They'll pass on their opinions of each other by putting the words in your mouth and repeating them as original with you.

Such "friends" as these bring shame to the dignity and pleasure of good companionship. Surely, they are unfair to you, and I'd find some way of letting them know I was not willing to be a go-between for back-biting gossip.

DATES AT SIXTEEN?

DEAR LUCILE: I'm 16, but my folks think I'm too young to go out. All summer, I took care of my four younger sisters and brothers; did the housework; got meals; did the washing and ironing. Do you think I'm too young to go out if I'm not too young to have had all of these responsibilities?—A. K.

A. K.: I think a girl of 16 is old enough to go out if she conducts herself in a proper manner, goes only to places of which her parents approve, and with people they know and trust.

Certainly, if a girl can do all the work you say you do, she deserves some relaxation. But you should keep reasonable hours and not neglect your school work and home duties.

WIFE NEEDS MONEY

DEAR LUCILE: My husband takes me along to town, without a cent of money. When we get there, he asks me if I have any money (knowing I don't). Then he gives me a few dollars and tells me not to spend too much.

I have two little girls, so can't go out working, but they need clothes badly. Can you tell me anything I can do to earn some money?—Mrs. Needy.

MRS. NEEDY: I know of no way for you to make money at home except by raising poultry; making something that you can sell or doing some service for people that they'll pay you for—such as laundry, sewing, baby tending or baking.

Don't GUESS! Buy ONLY

You are CERTAIN of QUALITY

when you buy Forman, Ford Grade 1 Paints . . . based upon 26 years of testing by the United States Department of Agriculture.

Forman, Ford Grade 1 Paints are "oil-rich" . . . built with the finest ingredients . . . giving you longer wear, better coverage, a finer paint job that actually costs less.

Know what you buy, look for the U. S. D. A. Classification Seal on every can of Forman, Ford Grade 1 Paint.

FORMAN, FORD & COMPANY
Since 1883
111 SOUTH SECOND STREET • MINNEAPOLIS 1, MINN.

Just like at the Florists

3 pkts. Beautiful and Fragrant
CARNATIONS
3 Gorgeous Colors
FREE!

Delightful Fragrance
Hardy as Zinnias
Bloom all Summer

Yellow—You'll love this one.
Pink—The daintiest of all.
Red—A real bold red bloom.

They Bloom in the Garden Like They Do in the Greenhouse

To get acquainted with you new gardeners, we're going to send all three packets of our new carnations absolutely Free. You'll get a greater thrill from growing them than almost anything else. Don't believe we could pick out anything better—even from our big catalog. Hardy everywhere. A fragrance you will never forget. Bloom all summer. And just like those you pay so much for at the florists'. Then we're going to send you our big 1949 catalog, with colored pictures of almost everything you want to grow. And along with it goes a years subscription to our "Planting Magazine". So fill out coupon below.

Mail this TODAY!

GURNEY
SEED & NURSERY CO.
1425 Page St.,
YANKTON, S. DAK.

Northwest's Largest Seed and Nursery House

GURNEY SEED & NURSERY COMPANY,
1425 Page Street, Yankton, S. D.
Yankton, South Dakota
Gentlemen: Please send me the 3 packets of Carnation seed. And don't forget the 1949 Gurney catalog and my subscription to the Planting Magazine. I'm putting in a 3c stamp to help with postage.

NAME .....
ST. or RT. .....
POST OFFICE ..... STATE .....

"Do you really mean it?"

Skelgas

for Cooking, Water Heating, Refrigeration

TUNE IN Alex Dreier every morning, Monday through Friday and to Lloyd Burlingham every Saturday over NBC—7 A.M.

DIVISION OF SKELLY OIL COMPANY, BOX 436, KANSAS CITY, MISSOURI

MAKE SOAP AT HOME FOR ONLY 1¢ A BAR

It's so easy to make good soap at home with Lewis' Lye. Just by following a few simple steps, with this famous brand of lye, you can easily turn out soap that is:

1. Hard, white and smooth.
2. Equally good for toilet or laundry purposes.
3. Economical—only a penny a cake.

Be sure to use only Lewis' Lye . . . a standby for several generations.

Want to perfume soap? Color it? Make it float? That's easy too. Write for FREE Lewis' Lye® 48-page book that tells how. Dept. 17E, Household Products Div., Pennsylvania Salt Mfg. Co., Phila. 7, Pa.

OTHER PENNSALT PRODUCTS

Knox Out® **DDT INSECTICIDES**

SPRAYS—POWDERS—DUSTS

for HOUSE•BARN•LIVESTOCK•GARDEN

THE NEW *EASY-TO-GROW* WATERMELON

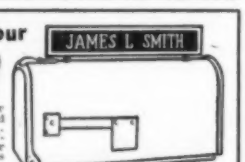
FREE!

FREE: Largetrial pkt. Sugar Lump Melons. Includes reds, whites, yellows. Also free planting book. Clip ad and send 3c stamp.

At last! A melon everyone can grow. The New SUGAR-LUMPS. Matures early. Ripe by 4th of July. Extremely sweet and juicy. Grow anywhere. Come in 3 colors—red, white, and yellow. Yellow sweetest. See free offer at left on mixture of all 3. Also thousands of other HARDY, TESTED seeds and plants grown in the north for hardiness.

GURNEY SEED & NURSERY CO.
1416 Page Street Yankton, So. Dak.

What's Your NAME?



We will cast your name in solid aluminum . . . send you a DOUBLE raised letter name plate (reads from both sides). When it arrives—and you like it—pay postman just $2.50 C. O. D. plus postage. If you do not like it, money cheerfully refunded. Smart, modern, rugged . . . lasts a lifetime. Helps people find you. Dresses up mailbox, post and lane. Order 2 plates (2 different names, if you like) for only $4.50. Cash orders prepaid. Order from McCONNELL BROS., 317 S. 3rd Street, Dept. D-4, SPRINGFIELD, ILLINOIS. CLIP THIS.

BUY U. S. SAVINGS BONDS—THEY ARE PROTECTION FOR LATER YEARS—BUY SOME TODAY!

If The Cook Gets Spring Fever

When Eating Begins to Lose Zest, Here Is How You Can Pep Up Those "Tired" Meals

SUPPLIES in the larder are apt to run low at this time of the year. Those vegetables you froze or canned last summer are pretty well used up.

Meanwhile, appetites are lagging. Just meat and potatoes never were enough. And winter often leaves our bodies short of Vitamins A and D and iron.

Maybe Grandmother wasn't so far off the beam with her spring tonic of sulphur and molasses. We can forget the sulphur—but let's give molasses a second look.

Weight for weight, plain, old-fashioned sorghum contains more iron than any other food. The more you can work into the menu, then, the better. Use it on cookies, gingerbread, Boston brown bread. Or serve it straight on waffles or pancakes.

Eggs pack a lot of nourishment in protein and vitamins, too. There are lots of ways to work them into the diet. A foamy omelet with cheese; baked custards; soft custards, served with fruit.

Why not more angel food cake? If yours is a small family, try making half of your large recipe. This can be baked in your loaf bread pan, and requires only 25 or 30 minutes in the oven. Cuts into nice pieces, too.

Not to miss iron and vitamins, be sure to use the egg yolks somewhere. They'll do in salad dressing, or for a yellow cake.

A tempting ice-box dessert is made by soaking one-half package of lemon jello in one-fourth cup of cold water. Beat three egg yolks and one-fourth cup of sugar. Combine the above with one-half cup of pineapple juice and cook in double boiler, stirring until it is slightly thickened. Cool.

Cut one-fourth pound of marshmallows and one-half cup of nuts (optional) into small pieces. Tear angel food cake into bite sizes and line a 5x8-inch oiled pan with the cake. Beat three egg whites with a pinch of salt till very stiff, then beat in one-fourth cup of sugar.

When custard begins to congeal, fold gently into egg whites and add marshmallows, pineapple and nuts. Pour over cake and chill several hours. Serve with whipped cream.

Dishes with a tang are appreciated at this time of year. So try dried apricot whip, or Bavarian cream. Dried apricots are apt to be high priced, 'tis true. But they are a close equal to liver in the amounts of both iron and Vitamin A they contain. (And more tempting to most appetites.)

Here's what you do: Cook and sweeten dried apricots and mash or sieve them. Add as the fruit to your favorite Bavarian cream recipe.

Fortunately, while other fruit is running out, oranges and lemons are now in most plentiful supply. They'll pep up many recipes. And give you needed Vitamin C. Then, if the family is tiring of those last cans of straight apple sauce, try them on an apple Bavarian cream.

Vegetables for spring are more of a problem. Especially if you've nothing much left in the cellar but canned string beans and carrots. But there are ways to pep up these commonplace vegetables.

Try Lyonnaise green beans, as follows: Saute some onions in fat until slightly brown, then add the beans and season with salt and pepper. Or make a savory vegetable sauce to pour over string beans. The sauce also goes for cooked broccoli, celery, beets and carrots.

Here's the recipe for making the sauce: Saute two tablespoons of minced onions in two tablespoons of butter for five minutes. Add one-half cup of fine, soft bread crumbs, and saute till brown. Add one cup of milk, one-half teaspoon of salt, a dash of pepper and a pinch of marjoram and thyme (if you like them). Simmer ten minutes, stirring frequently. Serve over cooked vegetable.

String beans may also be served with bacon and a white sauce.

Here's a dish that might appeal: Add some onions and tomatoes to green beans and put in a baking dish. Sprinkle with bread crumbs and bake.

Carrots are one of the cheaper fresh vegetables one can buy in the spring. They are commonly buttered or creamed. But there are other interesting ways of preparing them.

Ever try a shredded carrot and raisin salad—or carrot and cabbage salad?

Cabbage is the cheapest green vegetable you can buy now. Here is the short cooking method for it: Shred cabbage and boil in a large quantity of salted water for eight to twelve minutes. Drain, season and serve.

QUALITY FISH

GET YOUR SUPPLY FOR

LENT

FROZEN MISSISSIPPI RIVER FISH
FAMOUS FOR TASTE AND QUALITY

	Per Lb.
Carp, Hdls., Drsd., Large 22c; Medium	20c
Buffalo, Hdls., Drsd., Medium	40c
Sheephead, Tender Meat, Scld., drsd., 10 lb. pkgs.	30c
NEW FROZEN FISH	
Catfish, Choice, Sknd., Drsd., Hdls., 10 lb. ctns.	55c
Bullheads, Sknd., Drsd., Hdls., Lge., 10 lb. ctns.	40c
Bullheads, Sknd., Drsd., Hdls., Med., 10 lb. ctns.	32c
Walleyed Pike, Round, Fancy	32c
Baby Walleyed Pike, Scld., Hdls., Drsd.	32c
Northern Pike, Hdls. and Drsd.	25c
Ocean Pike (Whiting) Hdls. and Drsd.	17c
Salmon, Silver, Red	47c
Salmon Steaks, Silver, Red	54c
Halibut Steaks	54c
Sablefish, Drsd., Hdls.	28c
Halibut Chickens	33c
NEW FROZEN BONELESS FILLETS	
Cod, Sknls., Cello.—1 lb. pkg.	36c
Cod, Sknls., Cello—10 lb. ctns.	31c
Haddock, Sknls., Cello—1 lb. pkg.	43c
Haddock, Sknls., Cello—10 lb. ctns.	38c
10 lb. ctns.	38c
Pollock, Cello—10 lb. ctns.	25c
Sea Perch, Cello—5 and 10 lb. ctns.	31c
Ocean Pike (Whiting), Cello—10 lb. ctns.	26c
Walleyed Pike, 5 lb. Cello or Single Fzn.	63c
Northern Pike, Cello—5 lb. ctns.	42c
SMOKED FISH—HOME HICKORY SMOKED	
Smoked Carp, Choice Chunks, 5 lb. ctns.	32c
Smoked Salmon, Chunks, 5 lb. ctns.	60c

(For shipping smoked fish by parcel post add 25c per ctn.)

Prices are F.O.B. Lansing. No extra charge for boxes or ice. Over night express service to almost all points in Iowa, Minnesota and Wisconsin.

Order today from this ad. All fish are guaranteed. 5c lb. off on orders of 100 lbs. or more, one or mixed items. Express rates cheaper on orders of 20 lbs. or more.

LANSING FISHERIES CO., INC.
Distributors of Quality Fish Since 1900
LANSING, IOWA

ELECTRIFY YOUR FOOT MODEL SEWING MACHINE

COMPLETE KIT

Only $16.95

FITS ALL MACHINES, EASY TO INSTALL

2 YEAR GUARANTEE

Ideal gift for Mother or Sister. Makes her sewing a pleasure. Kit includes all brand new air-cooled motor. AC-DC. 110V or 220V (32V also available.) You also get:- Bracket. Pulley. Belt. Cord set. Foot control. Complete instructions. SEND NO MONEY. Pay postman, plus C.O.D. Or enclose payment, and we pay postage. Money back after 5 days if not delighted. State whether your wheel turns toward or away from you. Order now.

Free! $3 SEW LIGHT Included in kit if you order now. Sew Light also sold alone. Fits any machine. Special offer! $1.95

HOME SEWING MACHINES, DEPT. 2
410 N. Eutaw St. Baltimore, Md.

Slight Improvement

Old Joe was the laziest man in Ohio. Some of his neighbors threw in Illinois too.

One day his wife read that Grape-Nuts Wheat-Meal was rich in vitamins and quick energy. So she decided to try it on Joe.

Next morning she set a bowl of this hot cereal in front of her husband, and watched with satisfaction as he smacked his lips, and helped himself to a second.

After breakfast, Joe pushed back his chair, and announced happily: "I feel livelier than I have for years. Think I'll stroll down to the orchard and take my regular nap there!" Adv.

GET THE——

NEW BUSH CHERRIES

Great, big Cherries as large as early Richmond. Can be grown in the back yard on bushes no larger than a currant bush. Black, red and yellow cherries. We have more than 30 varieties, Sweet Bush Cherries, Nanking Bush Cherries. Each variety makes a different jam or jelly. Many fine Plums. All the new varieties of Apples from the Minnesota Fruit Farm. The new Cascade Currant, largest and sweetest of all Currants. Catalog free. 80 years in business.

BRAND NURSERY
BOX 408 FARIBAULT, MINNESOTA

WANTED—STUDENT NURSES
BE A NURSING ATTENDANT
in one year!

The Summit Hospital of Oconomowoc, Wisconsin, offers a one-year course in nursing with lectures, demonstrations and bedside nursing. You receive $10 per month. Room, board, laundry, uniform and textbooks furnished free. Requirements are: 17 to 35 with three years of high school and willing to learn a profession. Apply to Dr. G. R. Love, Summit Hospital, Oconomowoc, Wisconsin.

THIS AD PLUS 35c GIVES YOU 16 Jumbo oversize, enlarged prints from any roll developed. Enlargement coupon free.
SNYDOLAND, 6444-F Diversey, Chicago

Three Prints Each 8-Exposure Roll, 40c
Each 25c. One each 25c. Reprints 3c
EASTMAN - - - - BODE, IOWA

Corn On The Table

LOOKING out the back door, I can see four large, wire, outdoor cribs filled to overflowing with corn, and when I look out the front door I can see two filled cribs.

I am so thankful we have this wonderful feed, and I have resolved that corn will have an important place on our table, and often. Since it is a home product, it is inexpensive and handy to prepare. Corn has a large amount of starch and little protein.

HOMINY

Hominy or hulled corn, altho a primitive food, is still in use, and should be better known, for it has an unusual flavor.

My favorite hominy recipe is to place six cups of shelled corn in an iron kettle, cover with six cups of water and add one tablespoon of lye. Boil for 20 minutes and drain off the lye-water. Wash the corn until the water is practically clear.

Pour on more water and cook until hulls are loosened and germs are out. Rinse or wash again if necessary, then boil until corn is soft. Enough of the lye remains to give it an agreeable flavor. This makes a gallon of hominy.

Hominy is delicious when it is canned, to have to open the next summer for harvest hands. After hulls are loosened and the lye is washed out, partially cook the corn, pour into sterilized quart jars loosely, and cook under 10 pounds of pressure for 40 minutes. Serve heated and seasoned with butter or fryings.

CORN MEAL

Yellow and white cornmeal are about equal in nutritive value, but the flavor of the white is considered more delicate. Corn is rich in Vitamin A and is a good source of iron and calcium.

CORN BREAD

1½ cups corn meal
½ cup white flour
1 teaspoon salt
1½ teaspoons baking powder
1 egg
1 cup milk
6 tablespoons melted fat

Sift dry ingredients into bowl, add slightly beaten egg and other liquids and mix thoroly. Pour into hot oiled pan and bake in a hot oven about 25 minutes.

CORN CAKE

1 cup flour
½ cup yellow corn meal
¼ cup sugar
½ teaspoon salt
2 teaspoons baking powder
1 cup sweet milk
1 egg
2 tablespoons butter

Mix the dry ingredients thoroly in the order given. Add the milk with the egg (well beaten) and the melted butter last. Beat well and bake in muffin pans or a shallow pan in a hot oven for about 20 minutes.

This cake may be made without the egg, and when it is to be eaten with meat, the egg is unnecessary. But when this is the most substantial part of the meal, the egg should be used.—Mrs. Ruth Stevenson, Davis County, Iowa.

for those who bake at home NEW COOK BOOK

Quick recipes -modern methods!

HURRY—SEND TODAY! Modern recipes, newest techniques. Step by step *illustrated* directions for making breads, rolls, dessert breads quickly — with Fleischmann's Fast Rising Dry Yeast!

STANDARD BRANDS INCORPORATED
Dept. G-3
BOX 8, BROOKLYN 1, N. Y.
Enclosed find 25¢ for your new 32-page cookbook "When You Bake."
Name
Address
City State

WEAR TO SPARE- EXTRA COMFORT TOO- THEY'RE WOLVERINE HORSEHIDE THRU AND THRU

That's What Millions Say About

WOLVERINE HORSEHIDE HANDS

No other work gloves in the world like Wolverine Horsehides! Full grain Horsehide—tanned buckskin-soft by the secret Wolverine triple-tanning process. Soak 'em or souse 'em—they dry out soft and stay soft. Cost less to wear on any work glove job—and a style for every type of work. Made by the tanners and makers of Wolverine Shell Horsehide work shoes. See your dealer now and try on a pair.

WOLVERINE SHOE & TANNING CORP.
ROCKFORD, MICHIGAN

When writing to advertisers, will you please mention this paper?

Purina Research Tests Show:

NOW...12% FASTER GROWTH

WITH PURINA'S

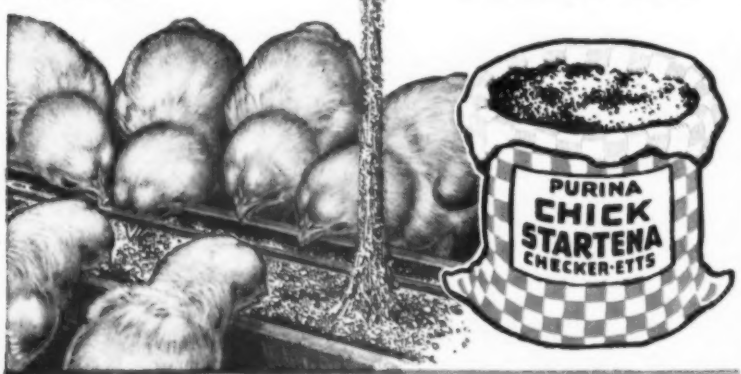
NEW STARTENA CHECKER-ETTS

Yes, Purina Research Tests show that *new* Purina Startena Checker-Etts beat the best Startena ever made by 12%! And you know that Purina Startena has always been tops for life and growth.

Checker-Etts are a new form of feed varying from fine to "cracked-grain" size particles of nourishing Startena. There's just the balance chicks like to eat. That's why they like Checker-Etts better . . . eat more . . . grow faster!

And there's a new stepped-up growth formula . . . new ingredients and a *"higher-energy"* blend. This, too, helps make faster growth and bigger, sturdier chicks. Be sure that your chicks this year get the fast start that Purina Startena Checker-Etts can give them. See your local Purina Dealer at the Store with the Checkerboard Sign for Startena Checker-Etts and all your chick-raising needs.

RALSTON PURINA COMPANY
Headquarters, St. Louis 2, Mo.



Like Most folks who raised chickens last year, the Coy Gilberts, of Warren county, Iowa, are buying the same number of chicks this year. But "in-and-outers" are coming back in (see below).

THE FARM FLOCK

IN A RECENT Wallace-Homestead Poll, we asked a cross-section of Iowa farm folks whether they planned to buy more chicks this year than in 1948. The answers add up to a 12 per cent increase.

▲ ▲ ▲

BUT HERE'S the interesting thing: The increase isn't coming from people who were in the chicken business last year. They're buying what their housing and equipment will handle — just as they did last year.

▲ ▲ ▲

IT'S "IN-AND-OUTERS" who account for most of that 12 per cent boost. Apparently, quite a few folks dropped out of poultry raising last year when feed was high-priced. Now they're coming back in.

▲ ▲ ▲

AS OFTEN HAPPENS, those "in-and-outers" might be disappointed. Egg prices could drop rapidly after Christmas.

▲ ▲ ▲

ONE REASON, of course, is more eggs. Another is that—as things stand now—government price supports on eggs will be lower in 1950. And nobody knows what might happen to consumer demand by that time. Right now, it's showing signs of weakening somewhat.

▲ ▲ ▲

BUT IF YOU HAVE your chicks started by now, you shouldn't have many worries. Early pullets will shell out a lot of eggs early next winter, before any big drop in prices comes along. And early cockerels will hit the fryer market ahead of the rush.

▲ ▲ ▲

GETTING BACK to that Wallace-Homestead Poll, it's interesting to see how the 12 per cent chick increase breaks down. Folks on bigger farms will expand more than those on smaller ones. And renters are increasing chick-buying more than farm owners.

▲ ▲ ▲

THE POLL SHOWS that there will be a 19 per cent increase in chick-buying on farms over 180 acres. Folks on farms under 180 acres are buying only 9 per cent more chicks. Number of chicks on rented farms will go up by 14 per cent over 1948. Owner-operators plan to buy 11 per cent more chicks this year.

▲ ▲ ▲

FOR THOSE OF YOU who still have your chicks to come, two suggestions are in order: Start just the number of chicks your equipment will handle efficiently; don't overcrowd. And do as careful a management job as you can. This year, a low death loss, high feed efficiency and a high egg production per hen will be more important than ever.

▲ ▲ ▲

AS MOST OF YOU know, Iowa in recent years has seen a big shift away from raising meat chickens. More and more poultry raisers have been buying sexed chicks. One reason is that less brooding equipment is needed. (See story on opposite page.)

▲ ▲ ▲

BUT THERE'S ANOTHER reason, too: We're much more efficient at producing eggs than we are at producing chicken meat. With better management and better layers, it now takes only 70 per cent as much feed to produce a dozen eggs as 10 years ago.

▲ ▲ ▲

WE'VE MADE NO SUCH progress in raising meat chickens. So commercial broiler areas—where producers have learned a lot of efficiency tricks—have been gradually invading our meat chicken markets.

Plan All Pullet Flock Now

You Can Start With Straight-Run Chicks If You Have Enough Brooder House Space

Chick-buying decisions hinge on equipment and the kind of laying flock you want. W. R. Whitfield, Iowa State College poultryman, outlines some of the things to consider.

ARE you going to have an all-pullet flock next fall? If you are, you'll have to make your plans now—at chick-starting time. So let's consider some of the advantages and problems involved.

One advantage is that pullets will out-lay old hens—by 20 to 30 per cent. These extra eggs are produced in the fall when eggs are scarcest. So, even tho some are small in size, they sell at higher prices.

An all-pullet flock means lower mortality, too. Many old hens are disease "carriers." They can pass their troubles along to young, unprotected birds and start a first-class outbreak. Pullets may pick up parasites from the old hens, too.

Another big factor is that many of your old hens will be molting next fall. It doesn't make sense to have a house full of loafers if you can have pullets all ready to go in and start laying during the season of high egg prices.

So, for most flock owners, there is little question about the advantages of filling your laying house with pullets next fall.

But how do you go about starting an all-pullet flock?

Some folks have the idea that "all-pullet flock" means buying sexed pullet chicks. That's not so. You can have an all-pullet flock next winter if you start straight-run chicks now. Because "all-pullet flock" describes next fall's layers, not this spring's chicks.

But there is this difference between sexed and straight-run chicks: The straight-run brood requires more brooder house space.

Many poultry raisers figure that extra space is worth having. Cockerel chicks can be sold as meat in 12 weeks. And, tho late-hatched friers may bring disappointing prices this year, meat birds marketed ahead of the rush are usually good money-makers and make quicker profits than pullets.

So your chick-buying decision really rests on this question: How do your brooder house and laying house fit each other?

If your brooder house space is equal to one-half the space in your hen house, you can safely start straight-run chicks. Figure two chicks to the square foot of brooder house space.

After selling the cockerels and allowing for normal mortality and culling, you'll still have enough good pullets to fill your laying house.

But suppose your brooder house has only one-fourth as much floor space as your laying house? Then you'll either have to buy sexed pullet chicks, or buy another brooder house.

For example, a flock owner with a hen house 20x40 feet will have space to house 230 general purpose breed pullets or about 270 Leghorn-type layers. To end up with that many pullets next fall, he'll have to start about 600 straight-run chicks or about 300 sexed chicks.

If his brooder house has half as much space as his laying house, he has a 20x20 brooder. That's plenty of room for 600 straight-run chicks.

But if his brooder house is only 10x20 (very few are as large on general farms), he'll have to buy sexed chicks. Putting 600 straight-run chicks into such a small house would invite trouble from crowding. And a smaller straight-run brood wouldn't give him enough pullets to fill his laying house.

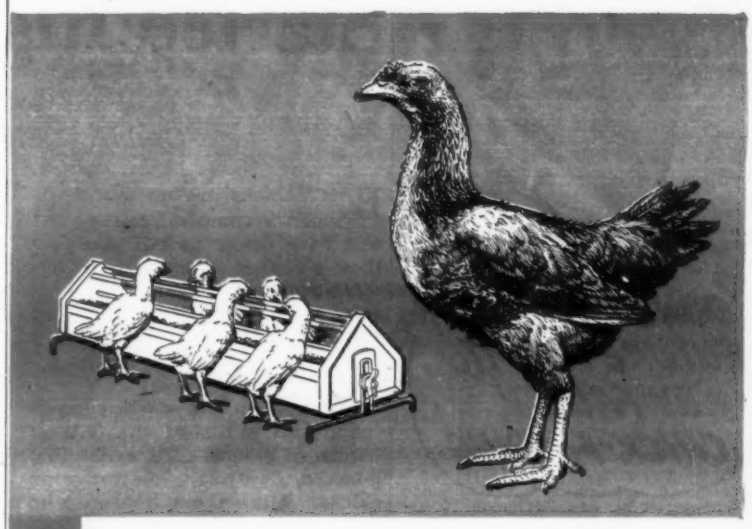
To repeat: For straight-run chicks, you need a brooder house with one-half the floor space of your laying house. If the brooder isn't that big, buy sexed chicks or another brooder house. Whatever you do, don't short-change chicks on space. Stick to the "one square foot for two chicks" rule.

ROOMY BROODER HOUSE

There's a lot of work in brooding the 2,000 turkeys raised each year by Herbert Heitschusen, Benton county, Iowa. So Herbert planned his new brooder house to save time and steps.

The 28x54-foot house has an alley-way down the center, three 18x12 pens on each side. Center pens have three windows each, end pens have four.

The building has concrete floor, cupola ventilators. Center height is nine feet, side walls are five feet high.



Control Coccidiosis
use SULFA-GUAN-I-DINE
The Safest Sulfa—Economical
A Time-tested Reliable Drug

When coccidiosis strikes, act PROMPTLY! Treat your chickens with time-tested SULFA-GUAN-I-DINE, the safest of the miracle sulfa drugs. It is low in cost and easy to use —just mix it in the mash AS DIRECTED.

When you treat coccidiosis with SULFA-GUAN-I-DINE you will find that

—mortality is quickly cut to a minimum and birds are soon feeding normally

—normal growth is seldom interrupted and birds are immune from later outbreaks

—the drug pays back its cost in birds saved from death and weight losses.

Poultrymen everywhere use SULFA-GUAN-I-DINE successfully to combat outbreaks of coccidiosis.

Free illustrated booklet sent upon request. If your dealer cannot supply you with SULFA-GUAN-I-DINE, kindly send us his name.

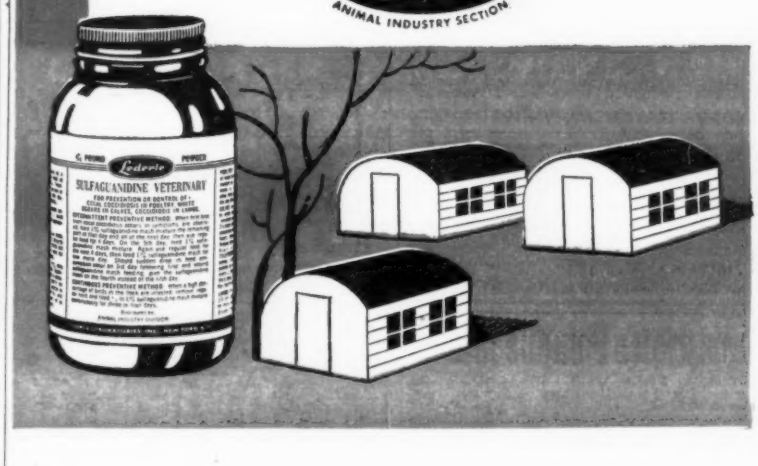
Poultry Department

LEDERLE LABORATORIES DIVISION

AMERICAN Cyanamid COMPANY

30 Rockefeller Plaza New York 20, N. Y

Lederle ANIMAL INDUSTRY SECTION



Jim Murphy Says:

NOW, faced with lower prices, much of your success with your baby chicks depends on: (1) feeding a well-balanced complete ration, and (2) holding down your feed costs. You can have just such a ration by using Murphy's Vig-O-Ray Concentrate fresh-mixed as directed, with home-grown grains. This *low cost* ration is so well-balanced that it supplies everything baby chicks need for rapid, healthy growth and early development.

Vig-O-Ray Starting Mash

supplies the essential protein, mineral and vitamin substances required for strong bones, healthy bodies and rapid development. Helping a two-ounce chick grow into a *two-pound* broiler or pullet in two months requires good care, proper management and productive feeding.

Since feed costs are the biggest single expense in raising chicks it pays to hold them down. Murphy's Vig-O-Ray Starting Mash is low in cost because it is made with grains grown in your own community. There are no hidden freight costs in the price you pay for Vig-O-Ray Starting Mash. Even though it is lower in cost you'll find it an excellent mash equal to, or better than, other more expensive commercial mashes.

Get Murphy's Vig-O-Ray Starting Mash from your Murphy Dealer, where you see the "Heart of the Ration" sign. This year feed a chick starting mash backed by *two* names you know and trust—Murphy's and your local Murphy Dealer.

FREE! You can have a free booklet on feeding poultry for profit by writing to Dept. F-39.

MURPHY PRODUCTS CO.
BURLINGTON, WIS.

BIG EARLY ORDER **DISCOUNT** ROP Bloodlines

You can save up to $3.00 per 100 on **CHICKS** Shipped before March 20

New Hamps, Hamburgs, Wh. Rocks, Black Giants, Wh. Leghorns, Brown Leghorns.

Started Pullets

Send post card for FREE Catalog and low prices. 48 hr. nation-wide shipping service. U. S. Approved—Pullorum Controlled. Orders Filled Promptly.

WINDSOR HATCHERY, WINDSOR, MO.

LUX R. O. P. Leghorns

Iowa U.S. Certified Chix and Eggs. 20,000 daughters and granddaughters of our ROP hens with records of 200 to 332 mated to ROP males from hens with records of 300 to 354 eggs. 25 years breeding experience. Iowa's largest ROP Leghorn Breeding Farm. Catalog.

Lux Leghorn Land Farms Hopkinton, Iowa

Thompson's Famous Chicks

Blood-tested. Barred, White Rocks, Austra-Whites, Leghorns, New Hampshires, Giants give you choice of breeds for egg or meat profits. Flocks improved by use of pedigreed males for 200 to 300 egg hens. As hatched, sexed or started. 100% live delivery. 98% livability GUARANTEED. Write for folder, low prices, special offers today.

TILMER THOMPSON HATCHERY
Rt. 102 Elmore, Minn.

When writing to advertisers, will you please mention this paper.

Get Those Chicks Started Right

Self-Feed Good Starter Mash, Add Whole Grains At Eight Weeks For Best Results

BABY chicks are no dumbbells when it comes to eating. You will have better luck if you give them a chance to prove it.

"Chicks know by instinct how and when to eat," says Herbert Buck, of Adair county, Iowa. "And they know what to eat, too—if it's available."

But human hands often botch the deal and distort the feeding habits of chicks. To avoid this mistake, says Buck, self-feed your chicks. Give them a chance to develop their own taste and judgment about eating. Put the proper feed before them—and they'll do the rest.

Buck speaks from experience. As a cooperator in the Iowa State College record demonstration flock project, he has records to back him up.

Both chicks and layers on the Buck farm used to be hand-fed. When the program was changed to self-feeding, a better flock of pullets grew up to lay more eggs.

So Buck is convinced that chicks can be trained to do a better job of choosing a diet than most flock owners can do for them.

Starting right is important. That means a high-quality starter mash. "High-quality" means just that. And quality is far more important than price. You won't save anything by buying a starter that does not contain the vitamins, minerals and proteins your chicks need.

A good chick starter contains from 18 to 20 per cent protein. Start feeding it when chicks are 24 hours old, or when they first arrive from the hatchery. If you wait too long, you may be troubled with toe-picking, litter-eating or starvation.

Two-inch-high feeders level full of mash is all the invitation the chicks need. Don't skimp them on feeder space—two inches of room per chick will give each chick a chance to eat. And it's unnecessary to spread feed on paper or cardboard.

After about the second day, fill feeders only half full. That will prevent waste and keep the chicks from picking up feed off the floor. That habit often causes crop impaction because of heavy litter consumption.

Be sure to keep the feed clean, too. Feeders should have reels or guards to keep chicks from scratching in the feed. As the chicks grow, raise feeders on legs or blocks so litter can't be scratched into them.

At four weeks, chicks should have six-inch-high feeders. Providing bigger feeders as the chicks grow saves the work of frequent filling and makes certain that the chicks won't be without feed.

Herbert Buck starts grain feeding when chicks are eight weeks old. Until then, grain in the mash is adequate. And earlier grain feeding slows up growth and feathering.

Feed whole oats and shelled corn in troughs placed alongside mash feeders. The chicks may take a little time to start eating whole grains. But don't worry about the delay. The chicks will do a good job of balancing their own ration.

You don't need to scatter grain on the mash. And cracking corn or mixing grains is a waste of time unless chicks are to be sold as meat. Broilers can be finished a little better if they get cracked corn and whole oats at six or seven weeks of age.

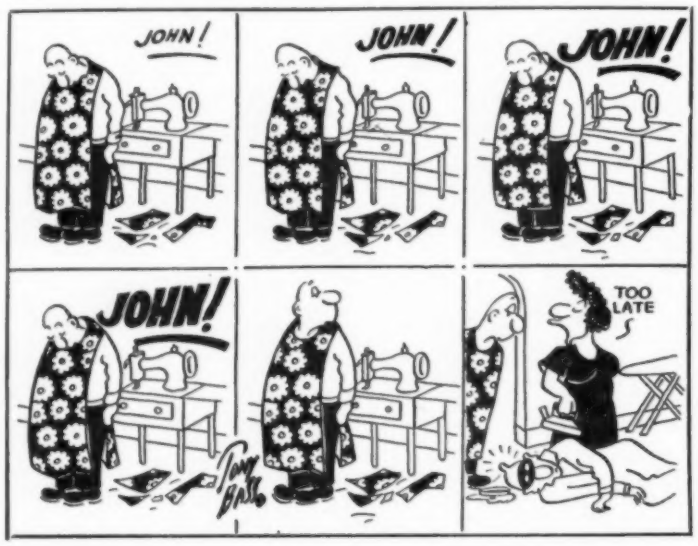
But any change in feeding program requires adjustment and causes chicks to lose weight. The program outlined above should be entirely satisfactory until cockerels are ready for market and pullets go on range.

Deep Litter Cuts Coccidiosis

Cut down losses from coccidiosis by building up immunity in the chicks thru the use of deep litter, says W. R. Whitfield, of Iowa State College.

Properly handled deep litter will stay dry and slow down development of coccidia. Then the chicks can't get a big enough dose of the disease to cause trouble.

And, by the time warm, damp weather—which means rapid development of coccidiosis—arrives, the chicks have become somewhat immune to the disease.



Danger of Disease Among Baby Chicks

Success in raising Baby Chicks depends largely upon proper care and management. Readers are warned to exercise every sanitary precaution and beware of infection in the drinking water. Baby Chicks must have a generous supply of pure water. Drinking vessels harbor germs. Drinking water often becomes infected with disease germs and may spread disease through your flock before you are aware. Use preventive methods—use Walko Tablets. For over forty years thousands of poultry raisers have depended upon them. You, too, can rely on Walko Tablets as a valuable antiseptic to aid in preventing the spread of disease through contaminated drinking water.

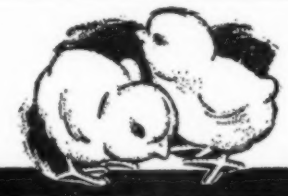
Remarkable Results Raising Baby Chicks

"Gentlemen: I have been using Walko Tablets for 35 years with splendid results. I would not think of trying to raise Baby Chicks without them I also use them for my grown birds with the same satisfaction." Mrs. C M. Bradshaw, Diagonal, Iowa.

You Run No Risk

Buy a package of Walko Tablets today at your druggist or poultry supply dealer. Use them in the drinking water to aid in preventing the spread of disease through contaminated water. Satisfy yourself as have thousands of others who depend upon Walko Tablets year after year in raising their baby chicks. You buy Walko Tablets at our risk. We guarantee to refund your money promptly if you are not entirely satisfied with results. The Waterloo Savings Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of our guarantee. Sent direct postpaid if your dealer cannot supply you. Price 50c, $1.00, $2.50 and $4.00.

WALKER REMEDY COMPANY
Dept. 44, Waterloo, Iowa



FEED YOUR CHICKS A BALANCED RATION

VICTOR

CHICK STARTERS
(GRANULES OR MASH)
CRETE MILLS . . . CRETE, NEBR.

Boote's

Chicks—Famous For Egg Production

Get Boote's Chicks—bred from high producing strains. Prices $4.00 per 100 and up—3 weeks guaranteed livability. Popular breeds. U. S. Approved and Pullorum Controlled. Eggs hatched in modern sterilamp-protected hatchery. Chicks carefully sorted and promptly shipped. 100% live delivery. Boote's 22 years of experience is your assurance of satisfaction. Order Now! Free catalog.

BOOTE'S HATCHERIES, Inc., Worthington, Minnesota

WHITE LEGHORNS BIG TYPE

Fine Egg Laying Strain. 100% Blood Tested. 100% Live Delivery. Heavy Production Mating.

Austra-Whites	$11.90
Brown Leghorns	$12.90
Golden Buff Minorcas	$11.90
New Hampshires	$10.90
White, Barred Rocks	$10.90
Columbian Rocks	$14.00
Leghorn Cockerels	$ 2.95

$10.90 per 100

Baby Pullets **$18.90**
4-Wks. Old **$32.90**

Write for Catalog and Prices or Order Direct from This Ad

Grain Belt Hatchery Box WF WINDSOR, MISSOURI

6 WEEKS OLD
Large White Leghorns

Healthy, vigorous chicks that have proven their ability to live. We will tell you just what they will cost delivered to you. Get this information today.

ECONOMY HATCHERY, WARRENSBURG, MO.

PROTECT YOUR CHICKS

FOLLOW DR. MAYFIELD PROGRAM FOR CONTROL OF POULTRY DISEASES

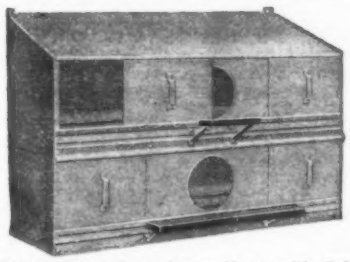
Stop Disease Worries! Save more chicks and poults! Start broods on Dr. Mayfield Disease Prevention Program from first day. Keep Chicks healthy and growing with new, successful Dr. Mayfield Tonic-Tablet Program. Low-cost. Practical. Easy to Use. Outstanding results everywhere. Get full particulars. Write today for FREE Chicken or Turkey Disease Prevention Program.

USE DR. MAYFIELD MODERN POULTRY DISEASE CONTROL PRODUCTS FOR TREATMENT OF:

Pullorum Typhoid Cholera Coryza	Dr. Mayfield Poultry Sulfa and follow with Dr. Mayfield Poultry Tonic
Coccidiosis Blackhead	Dr. Mayfield Poultry Tablets and follow with Dr. Mayfield Poultry Tonic
Mycosis	Dr. Mayfield Poultry Tonic
Round Worms Cecal Worms	Dr. Mayfield Poultry Powder or Dr. Mayfield Poultry Caps
Lice	Dr. Mayfield Roost Spread
	Dr. Mayfield Disinfectant and Insecticide

DR. MAYFIELD LABORATORIES, Inc.
CHARLES CITY IOWA
MODERN POULTRY DISEASE CONTROLS

THE NEW PROTECTO COLONY NEST
The Newest and Best in a Laying Nest



PROTECTO Colony Super Nests with Sub-Sections attached guarantee complete satisfaction. Made of 24 and 26 ga. Prime Galvanized Steel. Features . . . Sliding Front Doors . . . Inclined Top . . . Hinged Cleaning Doors . . . Redwood Perches . . . and Many Others. Illustration shows One Super-Section and One Sub-Section attached with a capacity of two 10-hole Group Nests. Second Sub-Section may be added to illustration increasing capacity to three 10-hole Group Nests. Wall space required only 48 inches. COST at least ⅓ less than Group Nests of equal capacity. Less crowding eliminates breakage and guarantees Cleaner Eggs. Can be shipped freight or express. Dealer inquiries invited. If your dealer cannot supply you write direct.
PROTECTO MFG. CO., OWATONNA, MINN.

NEW IOWA TYPE "Successful" BROODER HOUSE

- Slot ventilator under south eaves
- Ventilators in gable ends
- Kiln-dried west coast flooring used throughout
- Certain-teed blue-Hex roofing

Here's the new strongly built "Successful" Brooder House. Screen door provided for "Dutch" door. Fewer windows to reduce heat loss by radiation. Attractive, durable and weather proof. Write for full information or see your dealer. Dealer inquiries invited.

DES MOINES INCUBATOR CO.
1201 MARKET ST. DES MOINES, IOWA

BLACK LEAF 40 KILLS CHICKEN-LICE and FEATHER-MITES

CAP-BRUSH SAVES TIME, MONEY

Just tap liquid on perches and smear. Fumes arise, killing poultry lice while chickens roost. Cap-Brush makes a little go a long way. Original factory-sealed containers insure full strength.

4901

5-oz. Bottle Treats 450 Chickens or 300 Ft. of Roost.

LOOK FOR THE Black Leaf ON THE PACKAGE

U. S. APPROVED PULLORUM PASSED Chicks. Rocks, Wyandottes, Hampshire-Reds, Rock-Hamps, White, Brown, Buff Leghorns, Anconas, Austra-Whites, Heavy Assorted $8.95. Lights $6.95. Leftovers $5.95. Leghorn Cockerels $3.95 Collect. Get complete prices. SADIE STOUFFER HATCHERY, WADDAMS GROVE, ILLINOIS.

BUY U. S. SAVINGS BONDS NOW

Gathering eggs is bigger chore when 160 hens lay 90 eggs a day. But Marilyn Burns, of Marion county, Iowa, won't kick about near 60 per cent production.

Near 70 Per Cent Production

To the Editor: In your February 19 issue, it was mentioned that B. J. Hall, Greene county, Iowa, was getting 275 to 280 eggs daily from 550 layers.

This is a good average, but only slightly over 50 per cent. My mother-in-law, Mrs. Joe Fibekar, has been getting an average of over 300 eggs from her 445 hens since shortly after they were housed—with upwards of 330 on some days. —Myron Smith, Wright County, Iowa.

Hens Like Special Nesting Rooms

Special small nesting rooms for laying hens are being used on many Illinois farms.

The small rooms are built just inside the hen house door, and contain nothing but nests. University of Illinois poultrymen say they save time and steps in egg gathering—and that hens like the nests, too.

Keep Newcastle Out Of Flock

You'll save more chicks, and get more eggs from your layers, if you keep Newcastle disease out of your flock.

Dr. C. D. Lee, extension veterinarian at Iowa State College, warns that Newcastle will kill young chicks in a hurry. Death losses in laying flocks usually are lower. But the disease will throw layers out of production and keep them that way for several weeks.

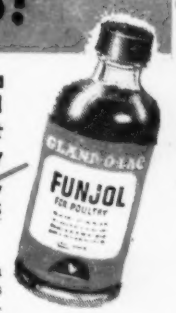
To avoid Newcastle, start with a good sanitation program, says Doctor Lee. That means thoro cleaning and disinfecting of your brooder house. Buy quality chicks from a reliable hatchery—and it won't hurt to take them home in your own car or truck.

Lee also suggests: Don't allow visitors around the brooder house. And keep other chickens away.

Several companies now are making vaccines that give protection against Newcastle. The type of vaccine to use, and the time to use it, depend partly upon the kind of poultry program you're following. Best bet is to check with your local veterinarian about a vaccination plan.

"FUNJOL cut my Chick losses to LOWEST in 20 YEARS!"

"Ever since I was knee-high to a grasshopper, I've raised chicks, and I thought I knew all the answers. But FUNJOL *really amazed me!* My chicks ate better, had less sickness, less bowel trouble, and the loss was the smallest ever!"

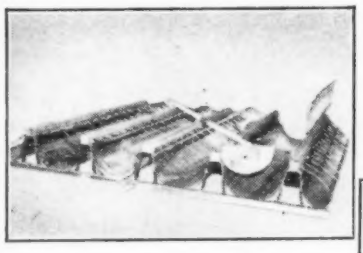


Yes, FUNJOL amazes a lot of poultry raisers. It's because FUNJOL SANITIZES THE DRINKING WATER for baby chicks and poults. That means FUNJOL *makes the water SAFE by reducing bacterial counts to SAFE levels.* FUNJOL checks growth of bacteria that cause souring . . . keeps down scum and slime . . . *saves hours of drudgery* cleaning fountains. FUNJOL acts *continually*, day and night . . . acts against germs of fowl cholera, pullorum and some strains of fowl typhoid, IN THE DRINKING WATER. FUNJOL inhibits growth of the fungus *Monilia Albicans*, a common cause of mycosis. FUNJOL is a liquid, convenient, economical and easy to use. Just takes a teaspoonful to a quart of water in any kind of fountain.

Your chicks will do better, this year and every year, when you start them on FUNJOL. Get FUNJOL today at your hatchery, drug store, feed or supply dealer. 8-ounce, 75c; Pint, $1.25; Quart, $2.

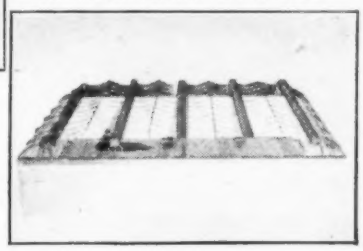
FUNJOL

A Field-Proven Product of The GLAND-O-LAC COMPANY, Makers of Quality Poultry Medicines for More than a Quarter of a Century . . . at Omaha, Nebraska



GALVANIZED DROPPING PANS

2x2 wood roost poles. No. 9 galvanized wire roost guards. 1x1x⅛ steel angle frame. Entirely ventilated and easily installed. Grooved poles for roost paints—complete with hoe curved pans. Eliminates rusting in corners.



PIT-ROOST

No. 9 galvanized wire roost guards—2x2 roost poles—1x1x⅛ steel angle frame. Easily installed. Fits any house. Install on pulleys for easy cleaning.

Advise inside measurements of house and number of birds housed. Write today.

The C. C. JOLLY CO., Owatonna, Minn.

SAVE! ORDER Boote's CHICKS NOW!

Boote's chicks are famous for fast growth, rapid feathering—and big egg profits. Popular breeds. U. S. Approved and Pullorum controlled. Hatched in modern, sterilamp-protected hatchery to give you strong, husky, healthy chicks. $4.00 per 100 and up—guaranteed to live 3 weeks. No strings to this. Boote's 22 years' experience assures you satisfaction. Save money. Order now. Free catalog.

BOOTE'S HATCHERIES, INC., Worthington, Minnesota

ZEELAND Hatchery POULTS

Amazing profits with Hamilton Strain super-Broad Breasts. Growers report 18 pound hens, 28 pound toms at 5½ months. Make 1949 your banner year—raise these super broad breasts for extra profits. Also Wagon Wheel strain broad breasts, White Hollands and all other breeds. Poults available for immediate and future delivery. Write

ZEELAND HATCHERY ZEELAND, MICH.

WHITE LEGHORNS

Rocks, Reds, Orpingtons, Wyandottes, Minorcas, Austra-Whites. Assorted, Low as $4.95 per 100.

$12.90 Per 100 Prepaid

Also Sexed and Started Chicks

FREE CATALOG explains two-week replacement guarantee. U. S. Approved. U. S. Pullorum Controlled. R.O.P. Foundation Breeding

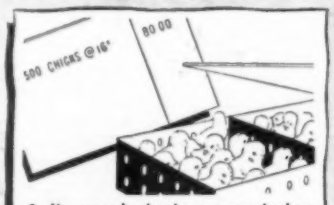
SCHLICHTMAN HATCHERY Appleton City, Mo.

WILCOX—Turkeys, Chicks, Ducklings, Broad Breast Bronze, Whites and other popular turkeys. All U. S. Pullorum Tested Stock. All varieties Baby Chicks—from select foundation stock, bred for high egg production, fast growth and meat qualities. Also White Pekin Ducklings for Extra Profits. Get the Wilcox catalog and low price list first. IT'S FREE.
WILCOX HATCHERY, Dept. B, Maquoketa, Iowa

STOUFFER'S FAMOUS CHICKS. U. S. APPROVED Immediate delivery. Barred, White Rocks, White Leghorns, Austra-Whites, Hamp-Whites $13.90. New Hampshires $14.90. Wyandottes, Reds $15.90. Giants $16.90. Heavy mixed $10.90. Lights $9.90. Seconds $6.95. Thousands of four-week-old Leghorn Pullets from high producing stock. Write for Circular and Prices.
STOUFFER'S HATCHERY LENA, ILLINOIS

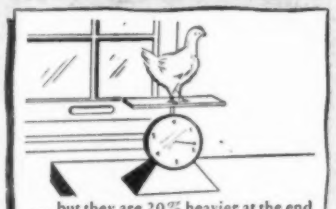
It takes less feed per pound of gain with Archer Chick Starter Granu-Bits

"After years of feeding my chicks the lowest cost chick starter I could buy, with only fair results . . .



I discovered, thanks to my Archer Dealer, that by investing about ½c more per chick I could feed Archer Chick Starter Granu-Bits.

What a difference the best chick starter made! Now that I'm feeding Archer, my chicks are not only healthier and stronger . . .



. . . but they are 20% heavier at the end of six weeks! And the mortality rate is down too. This was the kind of proof I wanted.

Here was proof that it paid to feed Archer Chick Starter Granu-Bits. Here was proof that the quality of the feed, not the price on the bag determines poultry profits."

Get bigger returns from your feed investment. Order Archer Chick Starter Granu-Bits from your Archer dealer.

ARCHER QUALITY

CHICK STARTER GRANU-BITS
ARCHER-DANIELS-MIDLAND CO.
MINNEAPOLIS
Manufacturers of a complete line of quality feeds

Bigger Flocks Coming?

Will small farm poultry flocks be squeezed out of markets by bigger competitors?

H. H. Alp, director of the American Farm Bureau Federation's poultry department, thinks they will. Speaking at a meeting in Kansas City, Alp recently said:

"The successful poultryman of tomorrow, whether he be a midwest farmer or a large commercial poultry producer, must look to a volume of quality production, produced at a low unit cost, if he is to keep pace with what is happening around him."

Alp contends that consumers now are demanding a high-quality type of eggs and poultry that only specialized production and processing can supply.

"There appears to be little opportunity for the so-called current-receipt type of egg and farm-run poultry getting back into our quality fresh egg and poultry markets," he said.

Alp said the swing to larger flocks is a healthy sign—"because it points toward an increase in year-around production of quality eggs and poultry."

The trend toward specialization in poultry farming, he said, is in line with developments in all phases of agriculture.

But bigger and more efficient flocks, said Alp, will require changes in our old-fashioned marketing system. He urged expansion of buying and selling on grade, simplified grade standards, better market reporting, and more attention to consumer preferences.

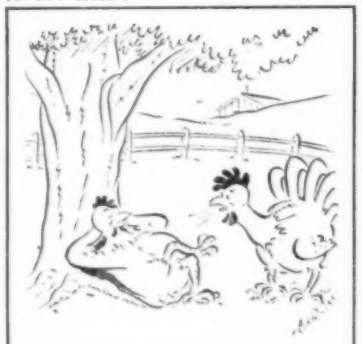
Cleaner Eggs From Community Nest

Community nests will cut the number of dirty eggs in half, say poultrymen at Ohio State University.

The community nests—in which several hens can lay at the same time—are easier to clean and can be kept free from parasites more easily than small box-type nests, the Ohio men say.

The community nest recommended by Ohio is a rectangular box with a top sloping from back to front. The nest is 8 feet long, 2 feet wide, 11 inches high in front and 30 inches high at the back. A partition in the center makes two 4-foot compartments.

Hens enter the nest thru openings 8 inches square in the center of each compartment. The front half of the nest cover is hinged so it can be lifted for gathering eggs. The nest will handle a flock of 80 to 100 hens.



"No, no, Rosie, when the boss said he likes 'laying hens', that isn't what he meant!"

Saves 25%

Mr. C. G. of Boone, Iowa, says: "I like my Green COLONIAL furnace for it is so easy to fire. It saved me 25% on my coal bill last winter. I think Green COLONIAL is the best furnace a man can buy, for you get so much more heat from the coal you burn." For further information on Green Colonial's new 1949 heating units send coupon.

SEND FOR FACTS ON BETTER HEATING

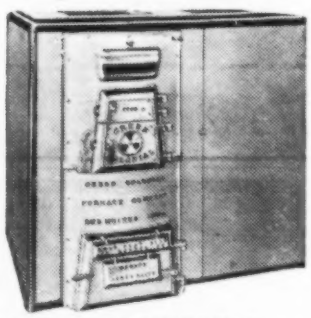
You can enjoy CLEAN HEATING COMFORT and REDUCE FUEL BILLS as much as 25%. Send today for complete information.

GREEN COLONIAL FURNACE CO.
301 S. W. Third St., Des Moines, Iowa

Name .....
Address .....

FARM FAMILIES *PREFER* COLONIAL Better Heating

The All-Purpose Furnace May be Converted from Coal to Oil or Gas



EASILY CONVERTED . . .

The COLONIAL ALL-PURPOSE Furnace is especially designed to burn all three fuels efficiently. May be hand or stoker-fired. Forced air for winter heat and summer cooling. Every installation individually engineered. Green Colonial manufactures a complete line of warm air heating units for homes of all sizes and all types of fuel.

GREEN COLONIAL
COAL • OIL • GAS FURNACES
STOKERS • BLOWERS • OIL BURNERS

BUY SAVINGS BONDS—THEY WILL HELP YOU LATER—BUY ALL YOU CAN—NOW!

Be sure OF YOUR CHICK FEED

VICTOR
CHICK STARTERS
(Granules or Mash)

KNOW your chicks are getting balanced amounts of Vitamins A B D E and G, from organic sources, proteins, carbohydrates, fats and minerals essential for health, fast growth and early development into hens that are good layers. Feed VICTOR CHICK STARTERS — either GRANULES or MASH.

See your VICTOR DEALER today
CRETE MILLS • CRETE, NEBR.

FREE!
NEW BOOK ON RAISING CHICKS

This new 1949 Ful-O-Pep Book, just off the press, gives you many helpful brooding hints on the care and feeding of baby chicks . . . points out things you can do to increase chick livability and growth. You'll find, too, how you may save up to 30% on feed cost by raising *big profitable pullets* on the famous Ful-O-Pep Restricted Feeding Plan . . . the program followed by many of the nation's most successful poultrymen. Send for your free copy. Write today to . . .

THE QUAKER OATS COMPANY, Dept. C-34 CHICAGO 4, ILL.

CHICKS THAT LIVE

Plus 2-Wk. Replacement Guarantee. U. S. Approved Pullorum Controlled. Best Breeding Foundation.

BABY CHICKS	St. Run	Pullets	Ckls.
Wh. and Brd. Rocks, Reds, New Hamps, Buff Orpingtons	$12.70	$16.70	$11.70
	PER 100 PREPAID		
White and Brown Legs, Austra-Wh.	$12.70	$20.70	$3.70
	$12.70	$20.70	$7.70
	PER 100 PREPAID		
Heavy Asstd.	$9.90	$13.90	$8.90
Light Asstd.	$9.90	$14.90	$3.70
Heavy Breed Broilers			$7.90

WRITE FOR PRICES ON
STARTED CHICKS
2 TO 4 WEEKS OLD
NOLD Hatchery, Box 26-L, Montrose, Mo.

ZEELAND Mammoth White PEKIN DUCKLINGS

GROW FAST on LOW PRICED FEED
Order Now at These Low Prices

SPECIAL "AAAA" MATING
From 2 and 3 year old Breeders
12 ducklings, $4.95 — 25, $9.95 — 50, $15.95 — 100, $29.95 — 300, $87.95.
SUPREME "AAA" MATING
From Yearling Breeders
12 ducklings, $4.45 — 25, $8.95 — 50, $14.95 — 100, $27.95 — 300, $81.95.

We pay postage. Send money with order or we'll ship C.O.D. Be sure to specify quantity, grade, and delivery date wanted. Available now and every week of the year.

FREE "DUCK RAISERS'" GUIDE!
Zeeland Hatchery, Inc., Bx. D-7, Zeeland, Mich.

1st PRIZE **RIFFLE CHICKS WIN 6 FIRSTS and 2 SECONDS at 101st BOSTON POULTRY SHOW!**

Riffle's I.Q. (Inherited Quality) chicks flown from the mid-west to Boston WON these outstanding achievement awards— **FIRST.** White Rocks, New Hampshires, S. C. Reds, Barred Rocks, White Wyandottes, Minorca X Leghorns. **SECOND.** Barred Rocks, White Leghorns. Get our Low Prices on chicks like these. Popular and rare breeds. Catalog Free!

John Riffle Hatchery, Box 33, Shenandoah, Iowa

***Choice* TURKEY POULTS**

Send for FREE CIRCULAR describing Mixa's Broad Breasted Bronze turkey poults for 1949. Popular medium and heavy strains are available—all scientifically hatched under "hospital clean" conditions. Hatching eggs shipped in from famous West Coast breeding farms are all pullorum clean. Your order is guaranteed for 100% live delivery. Write today to Redwood Falls, Minnesota.

MIXA TURKEY HATCHERY Inc.

Double Protection for your chicks!

KILLS MOST GERMS IN DRINKING WATER!

K-M protects your chicks from contaminated drinking water. They like K-M and drink plenty of it. Start your chicks with K-M.

FIGHTS NEWCASTLE VIRUS!

San-A-Mor kills the deadly Newcastle Virus and the germs of most infectious poultry diseases on contact. A highly efficient disinfectant.

SEE YOUR DEALER TODAY

HILLTOP LABORATORIES
Aids for Poultry

718 Washington Ave. N. Minneapolis 1, Minn.

WALNUT Prefabricated VENSULATED BROODER HOUSES

SAVE TIME, MONEY, WORK PROTECT CHICK HEALTH

House your chicks without delay in a Walnut Brooder House. Hundreds of satisfied users. Insulation and controlled ventilation help keep house dry, healthful; promote fast, uniform growth. Assemble sections yourself, quickly, easily into a sturdy, neat, modern building. Ample head room. Save through prefabrication. Order from your Walnut dealer or write direct for free folder.

Address Dept. W.

WALNUT VALUES
- Fast Delivery
- Easy Erection
- Roominess
- Good Quality
- Insulation
- Ventilation
- Fair Prices
- Good Looks

FARM BUILDINGS and HOMES For Every Need

GBH-WAY HOMES, INC. DEPT. W WALNUT, ILLINOIS

GREATER PROFITS WITH

Ames In-Cross 301 Chicks

Bred on the same principles used in producing HYBRID CORN. Poultry raisers say: "We have never had chicks as good as these." "We get more eggs than we ever did before." "Ames In-Cross 301 Chicks live better." Here's why: Ames In-Cross 301 Chicks produce more eggs—have a longer laying period—egg quality is higher because of uniformly large size, smooth shell texture and fewer blood spots—fewer culls and less death losses—the cost for feed per dozen eggs is lower.

See your authorized Ames In-Cross Hatcheryman or write Dept. WF

Ames In-Cross, Inc.
AMES, IOWA

Platon—for all WOOD SURFACES!

This remarkable new finish for wood gives lasting beauty and protection. Heat resistant—acid resistant—eliminates waxing or scrubbing in your homes.

ASK YOUR LOCAL PAINT DEALER

QUIPS AND QUOTES

THE OFT-MADE assertion that history always repeats itself shouldn't be taken too literally. What other nation in the past ever had the atom bomb and a 250-billion-dollar national debt?—Mason City Globe-Gazette.

A JURY is said to consist of 12 persons chosen to decide who has the better lawyer.—Manning Monitor.

BOYS IN A WISCONSIN high school have started a fad of dyeing their hair. If you want our opinion, a tanning on the opposite end is in order. — Lake Mills Graphic.

A NEW TWIST has been put on the wisdom of marrying late in life with the prediction that when the kids are old enough to sow their wild oats, the parents are too old to do the thrashing.—Lake Mills Graphic.

MARRIAGE has been defined as the process of finding out what the perfect husband would have been like. — Mason City Globe-Gazette.

WHY WAS JULIUS CAESAR so concerned about the "Ides of March"? The income tax law had not even been thought of at that time.—Guthrie Center Guthrian.

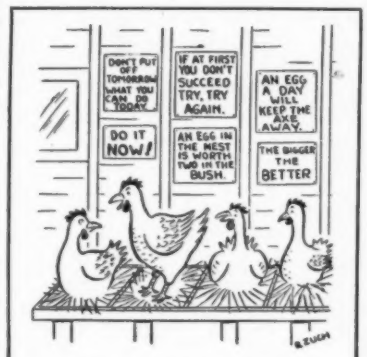
A CHICAGO MAN will be eligible for parole from a penitentiary sentence in 232 years. By that time, he may like the place and decide to stay.—Webster City Freeman-Journal.

IT'S ONLY WHEN a man's wife can read him like a book that most husbands decide to turn over a new leaf. — Mason City Globe-Gazette.

A BILL in the state legislature proposed to have that law-making body meet every year. Why make the suffering more frequent? —Danbury Review.

THE ABILITY to throw yourself into everything you undertake is a commendable trait, unless you are digging a deep well.—Marathon Republic.

COMMUNISM CLAIMS that it is designed for the poor and needy. And it must be so, because that's about all the Communistic countries seem to have.—Washington Journal.



"Him and his slogans!"

Uniform Quality in Any Quantity

Whether you buy HI-V-I in quart or 5 quart cans; in 5 gallon utility cans or in 55 gallon drums, you get the uniform high quality for which it is noted. Champlin has one large refinery devoted exclusively to the production of HI-V-I. This assures the same quality and performance from every drop of HI-V-I, the Twin Action Oil. Refined from the finest Mid-Continent Crude, HI-V-I is dependable for QUALITY IN ANY QUANTITY.

A PRODUCT OF CHAMPLIN REFINING COMPANY, Enid, Okla.

Producers, Refiners, Distributors of Quality Petroleum Products since 1916

CHAMPLIN

SEND IN THIS COUPON FOR INFORMATION ON THE

MARK ARC

Howard Welded Buildings, Inc.,
1014 S. Dittmer St., Davenport 3, Iowa

USED AS A GARAGE

USED AS A HOG HOUSE

PORTABLE--CONVERTIBLE--LOWER IN PRICE

Please send me free information showing how the Mark Arc can easily be erected by 2 men in 2 hours — figures showing it to be the lowest price all-purpose building on the market — and how its new and better design makes raising pigs a pleasure. I would also like to see how the Marc Arc can easily be converted into a garage, machine shed, or other utility building.

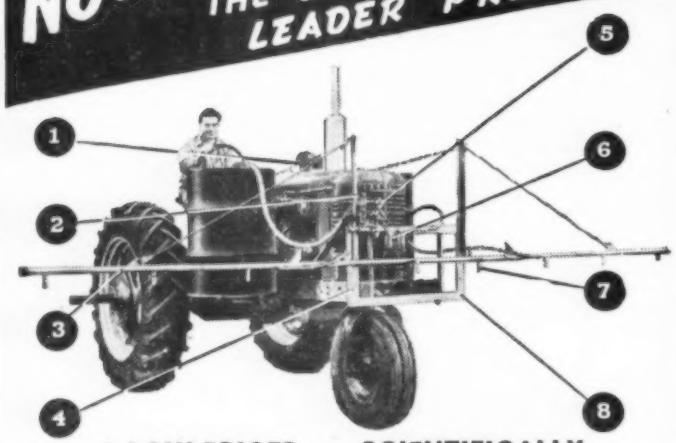
Name

Address

Let the advertisements in Wallaces' Farmer and Iowa Homestead form your buying directory. If the articles you wish to purchase are not advertised in this paper, we will be glad to give you the names of reliable firms from which you can make your purchases.

—PUT SOME OF THAT EXTRA CASH INTO SAVINGS BONDS—

NOW ESSICK... THE SPRAYER INDUSTRY LEADER PRESENTS



A LOW PRICED . . . SCIENTIFICALLY DESIGNED POWER TAKE-OFF SPRAYER WITH THESE IMPORTANT FEATURES:

1. Control of boom from tractor seat. Pull rope to raise ends of boom.
2. Pressure regulator . . . set quickly to desired p.s.i. . . . allows the use of exact pressure and by-passes excess back to barrel.
3. Standard boom width 14'. Extensions to 20' easy to attach. Regular Essick booms may be used with unit.
4. Built of rugged steel—designed by Engineers with more than 20 years experience in manufacture of sprayers. Pump tested in OVER A YEAR OF CONSTANT USE.
5. Patented Remote Control Fluid Shut-off Ratchet valve controlled from tractor seat. Pull on rope turns boom ON . . . second pull shuts boom OFF.
6. Dual Line Strainers, plus strainer on suction line in barrel guarantee trouble free operation.
7. Nozzles to deliver from 2 to 200 gallons per acre may be ordered with sprayer.
8. Model 100 . . . built to mount on front or rear of any tractor, truck, jeep or trailer. Pump driven by tractor Power Take Off. (Barrels not included).

AS SHOWN, ONLY $219.00

Essick . . . The Complete Line

Whatever the spraying job, Essick has a unit which is designed for your need.

Write now for full details about the complete line—self-propelled unit, roadside, tractor mounted, trailer-type or skid units which have their own power and can handle over 50 jobs for farm maintenance. Ask about Dealerships!

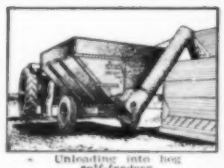
ESSICK

DISTRIBUTED BY

Corn States Hybrid Service, 450 Court Avenue, Des Moines, Iowa

With blower attachment unloading grain into a bin.

HAULS, UNLOADS, BLOWS



Unloading into hog self-feeders.

THE NORTH AMERICAN

GRAIN-O-VATOR

Unloads at 50 bushels per minute. Delivers as high as 50 feet into silo. Time tested and farm tested. A wagon that not only hauls but works.

EVERY FARM SHOULD HAVE ONE

DODGEN & CO. FORMERLY J. B. SALES FORT DODGE, IOWA

WRITE FOR NEW ILLUSTRATED FOLDER—NO OBLIGATION

EASYROLL TRACTOR WIRE WINDER

80 Rods in 3 Minutes

Rolls or unrolls wire mechanically! Handles barbed or check row wire without snarling or back-lash. Simply drive tractor down fence row. Attach or detach in seconds! Fits row crop, Ford, Ferguson tractors. Only one reel required. Satisfaction guaranteed or money back. Reasonable price. Write today for

FREE FOLDER

Agents and Dealers: Good opportunity. Write immediately.

Dept. 1, Wire Winder Mfg. Co., Mendota, Ill.

Gentlemen: Please send "80 Rods in 3 Minutes" folder and prices on EasyRoll Wire Winder.

NAME .....

R. R. (or Street) .....

CITY ..... STATE .....

DETROIT PUBLIC LIBRARY

—PUT SOME OF THAT EXTRA CASH INTO SAVINGS BONDS—

Washington Wire

Should 1949 Corn Acres Count?

Senate And House Deadlocked On Counting 1949 Corn Acreage In Making Allotments

WASHINGTON, D. C.—If farmers have corn allotments in 1950, should the 1949 corn acreage count in adding up a five-year average for a historical base?

Most farm leaders say "No." The senate says "No." But the house of representatives says "Yes."

What difference does it make? Let's figure.

Suppose you raised 40 acres of corn each year for the four years ending in 1948. And you plan to raise 49 in 1949. That gives you a five-year average of 43 acres.

If, in 1950, you are told to cut corn acreage by 10 per cent, your corn acreage goes down to 36.

But suppose you look ahead and in 1949 put in 60 acres. That brings your five-year average up to 44 acres. Cut 10 per cent, and you have 39.6 acres. That's practically the 40 acres you started with. You haven't really cut at all.

That's why farm leaders and the senate want to leave out 1949 acreage. They figure some farmers will expand acreage, build up the corn surplus, and fix things so they won't have to cut much in 1950.

As this is written, the bill to leave out 1949 acreage in figuring allotments is in conference committee. The committee is deadlocked.

House members of the conference committee claim that farmers will plant big acreages of grain and tobacco anyway this year, and it won't make any difference what the law says.

Cotton is different, they claim. The cotton market is growing smaller every year. Everything should be done to keep this year's acreage down.

The Department of Agriculture says that if congress doesn't act on the bills by the end of March, there will be no use to act at all. Some of the cotton in southern Texas will be planted in late March.

One suggestion is to use the soil conservation plan of each farm as the base, but no legislative action has been taken in this direction.

One trouble here, of course, is to get adequate soil management plans worked out for each farm by the time allotments need to be made.

Several top-ranking farm leaders here predict that the Aiken long-range farm law, with its system of flexible price supports, will go into effect next year because of the inability of house and senate to agree on anything different.

They expect the house to pass a new bill, providing for somewhat more rigid supports, perhaps close to 90 per cent of parity, with crop controls.

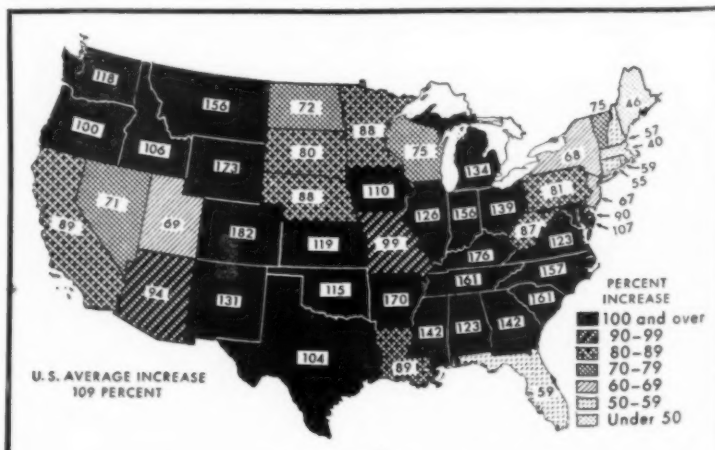
The senate, on the other hand, may refuse to pass such a bill. The session may wind up with the two houses in disagreement. As a result, the Aiken law would go into effect.

Several of those making these predictions are house leaders who don't like the Aiken law. But they see little chance of getting it repealed or changed because of the attitude of the senate.

President Allan B. Kline, of the American Farm Bureau Federa- has warned the railroads that they are driving farmer-shippers into the hands of the trucking industry by their demands for higher freight rates.

Kline gave this warning before the Interstate Commerce Commission, the agency which sets railroad rates. The railroads want a 13 per cent hike.

Instead of trying to get higher



Where Land Price Boomed

Black states are those where farm land prices increased 100 per cent or more from 1935-39 to July, 1948. Range states showed biggest increase. Citrus states have begun to slump from war peak. Figures are those of Bureau of Agricultural Economics.

FEEDING FACTS by the "Old Timer"

John Haberkorn, President of Viking Laboratories, Inc., is known far and wide as "The Old Timer" in mineral feeding.

This has really been a hard winter. I have talked with older men (older than "The Old Timer") and it was as rough as they had ever seen. But we bounce back when the snow begins to leave and it comes time to plant.

CARL DOLL from over in Illinois was in to get his truck loaded with VIKING VILAK. "The Choice of Breeders and Feeders of Champions." Carl is doing a fine job of organizing sales and says, "Watch Illinois from now on."

Had a letter from OMAR M. BOSIER, Panora, Iowa, and he tells us: "I have been using VIKING VILAK for several years and find no other mineral compares with it. It not only saves grain . . . it also gives you the satisfaction of seeing your stock do better. The VILAK Blocks are tops for cattle. There is no better mineral for brood sows and pigs. I am all for VILAK." Thanks, Mr. Bosier.

Today three per cent of all cattle are purebred, and ten years back when I was active in the cattle business it was two per cent. I think that has helped us increase our number of VILAK users . . . makes me feel it has been worth while to insist on top quality ingredients for VILAK.

We have a very important customer clear down in Louisiana . . . he's just a shade more important than anyone else because he was our VERY FIRST Customer . . . and by gum we're proud that he is still a regular VILAK feeder.

The postcards are still coming in with requests for "The Old Timers" book, "Good Breeding and Feeding." I sure enjoy sending 'em out so PUT YOUR CARD (with name and address) IN THE MAIL TODAY. And I'm getting letters from quite a few folks who want help on feeding problems. I'd sure enjoy a letter from you with questions or news for the column.

Back to the Purebreds . . . you know, you won't find a much smarter group of men than these cattle raisers. They are businessmen . . . and they know their job. One of our big feeders who started many years ago tells me he wouldn't think of feeding cattle without VILAK Mineral. CARL LIPPOLD of eastern Iowa has consistently been a winner at the International Show. He tells me his cattle were on feed two months shorter this year. He puts fat on them by adding VILAK to his corn and other feed . . . I can imagine the feed he must save. And VILAK works as well for Hogs, Sheep, Dairy Cows . . . in fact, all farm animals like and need VILAK.

The morning mail brought a nice letter from LEROY BROWN of Lamoni, Iowa. He has a Shorthorn Senior Bull Calf that won first prize and Reserve Champion Shorthorn Bull at the 1949 National Western Livestock Show in Denver. Congratulations Leroy, and thanks for telling me that your bull has been fed VILAK since birth.

LOUIS ACCOLA, Alleman, Iowa, just told us today of the wonderful results his dairy cusotmers are having. JOHN BROWN of Bondurant, Iowa, and LOU GEISLER from the same neighborhood are doing a great job with VIKING VILAK Mineral Supplement.

IODINE is a very important ingredient in our properly balanced mineral feed. Goiter and lump jaw result from iodine deficient rations. Iodine is also important in the entire metabolic process.

If you folks have any questions or news you'd like to see in my regular column, I'd like to hear from you.

The Choice of Profit-Minded Feeders

VIKING VILAK
MINERAL SUPPLEMENT

VIKING LABORATORIES, INC., Des Moines, Ia.

Aiken of Vermont. His farm law may stay as it is now because the senate and house can't get together on changes.

rates, Kline said railroads should adopt a vigorous program aimed at increased efficiency.

Farmers may soon be able to breathe a little easier about the way the government will support hog prices. The announcement that prices would be supported at 90 per cent of parity thru next March pleased many farmers, but made others ask:

"How will these prices actually be supported? If the government just goes on the market to buy pork, it can't hold the price up if a big rush of hogs comes in."

One plan repeatedly suggested is the "compensatory payment." Let the market go where it will. But pay the farmer the difference between market price and guaranteed price.

This would cost the government no more than the other plan—possibly less. It would please consumers by giving them cheaper pork. And it would make sure that farmers got the support price.

The Hope-Aiken law, according to some authorities, gives the department power to make such payments now as well as after January 1. But Secretary Brannan, because of some opposition to the plan, wants congress to rule on it again.

If congress grants the authority, and if it works with hogs next December, the plan might be extended to other perishables in 1950.

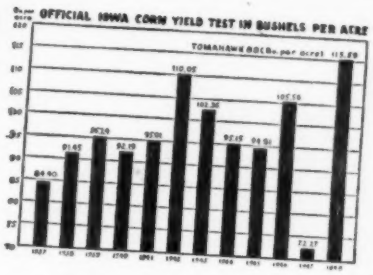
Department of Agriculture officials don't want to be caught with big supplies of perishables in storage. They'd rather support the market in other ways.

What about grain storage? Congress still hasn't given Commodity Credit Corporation authority to build more storage space. And many farmers—particularly wheat—want the government to take over grain under loan so they'll have some place to put the new crop.

Inside reports say Secretary of Agriculture Brannan will propose a program for the building of facilities by farmers, farm cooperatives and the private grain trade, with the government stepping in only in case of an emergency.

Some midwest congressmen are worried for fear nothing will be done in time to get set for next fall's storage problem.

TOMAHAWK HYBRIDS
Set New Records in Official Iowa Corn Yield Test



Shown at the left are the top sectional yields in The Iowa Corn Yield Test for the past twelve years.

- . . . Tomahawk 88 not only had the top yield of 326 sectional hybrid entries in the 1948 Official Iowa Corn Yield Test, but established an all-time high sectional yield of 115.59 bushels per acre in the southern section.
- . . . Tomahawk 42 topped the three-year average, '46, '47, '48, in the northern section on a General Performance rating.
- . . . Tomahawk 80 topped the two-year average on a General basis in the south central section.
- . . . Tomahawk 61 ranked among the top five hybrids in the north central section on general performance, two-year average.

For higher yields in your own fields, plant the Tomahawk Hybrid that has been proved best for your locality.

Tomahawk 42, 80 and 88 are available in limited quantities. See your Tomahawk Dealer or write direct to

Thompson HYBRID CORN COMPANY, Inc.
BELMOND, IOWA

PAYS FOR ITSELF

by improving the grade of your corn

30¢ to 50¢ a bushel

makes possible P.M.A. corn loan

PARTEN ALL STEEL SECTIONAL CORN CRIB

Wallaces' Farmer, in an article on corn cribs in its March 5th issue, said: "Any time that more than 10 cents per bushel can be made by providing storage for corn, it looks like a good business deal. . . . After sealing corn this spring, the crib would have earned all or a large part of its cost." And that time is NOW! With prices as they are, the Parten Corn Crib will quickly pay for itself—and you'll have this wonderful crib—without cost—to use for years and years.

There's nothing to equal a Parten All-Steel, Sectional Corn Crib, with its heavy steel expanded metal sections (much stronger than wire mesh) . . . welded construction . . . center ventilator for ample air passage. You can order floor and roof and one, two, three or four Parten crib rings—then add to your crib or rearrange it at any time. Two men can put it up in half a day. A Parten gives you low cost "crop insurance" year after year.

PROMPT DELIVERY while our stock lasts

Get your corn under cover right away—dry it out—increase its value 30c to 50c a bushel. Do it before warm weather, spring rains, and mold reduce its grade. By prompt action, you can make yourself a present of the rugged, long-lived Parten Corn Crib. Don't delay—send coupon airmail or phone or wire us for circular and prices.

DEALERS: Write us for information

2 MEN Can Erect It in HALF A DAY

PARTEN MACHINERY CO.
315 Sixth Avenue South, Minneapolis 15, Minn.
Phone: MAIN 5411

Rush circular and prices on Parten All-Steel, Sectional Corn Crib.

Name .....

Address .....

.....

Twin Draulic Loader

Loads Faster
Holds ITS TRACTION
Handles Easier

Fits Over 88 Tractor Models

to save you time and work

Model C Twin Draulic Loader fits row crop tractors. Handles manure bucket, bulk shovel, hay stacker, scraper blade (bull dozer), etc. Save money, get the best.

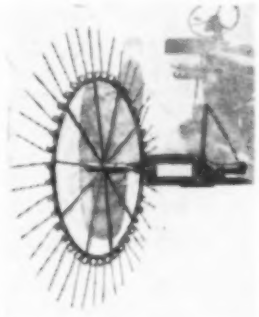
Immediate Delivery

Get ready for spring work now. No other loader gives you "adjustable power" provided by the patented variable lifting mechanism for height and power. No other loader so completely distributes the weight of the load over the entire tractor to provide greater traction on the rear wheels. No other loader is put on or taken off the tractor so quickly and easily. No other loader has twin balanced cycloid hydraulic lifting with such finger tip control.

Model 4-W Loader fits large and small 4-wheel tractors. Ford, Ferguson, Case, International, etc.

X-TRA CLUTCH and Power Take-Off for W C Allis-Chalmers Tractors. A necessity to continuous operation of baler and other machinery operated by the power take-off. Easily installed. Pays for itself in one season.

Save Hay and Grain with the Windrow Turner



Windrow Turner fits any tractor. Turns any windrow after a rain without loss of leaves, grain or seed. Heavy duty. Pays for itself. Thousands in use.

TWIN DRAULIC, Inc.
Dept. W 31 LAURENS, IOWA

MOTOR FURNISHED or USE YOUR OWN MOTOR

Dapco, the most efficient air compressor for its size and weight ever developed, is guaranteed to produce 100 pounds air pressure—featuring an even, steady flow of air to exact desired pressure. No pulsating, no air tank, no relief valve, no lubrication! Just "Carry air anywhere".

Weighs only 15½ lbs., without motor. (42 lbs. with ⅓ H. P. motor). Any motor can be used, ¼ H. P. or larger.

So easy to spray insecticides, disinfectants, paints, calcimine or to inflate tires and lubricate machinery.

DAPCO USE—IMPORTANT WITH FARM MACHINERY

Other electric models furnished, as well as those for gas engine, tractor or battery operation. Tank mounted units, if desired.

LOW COST—WRITE!

COMPRESSOR DIVISION, JOHNSON SERVICE CO.—Manufacturers
Milwaukee 2, Wisconsin

Please send free, illustrated folder and name of nearest Dapco dealer WF

NAME _____

ADDRESS _____

—SAVE MONEY THE EASY WAY—BUY SAVINGS BONDS NOW—

Maybe you will want to try some of the ideas you read about in this column. If you do, go ahead. But, remember, in many cases you will be experimenting. In order to keep you posted on new developments in agricultural research, some projects are reported when they are still in the "testing" stage. When that happens, publication here is not to be taken as an unqualified recommendation.

More For Your Money In Fertilizer

The farmer's fertilizer dollar today buys just about as much plant food in the form of commercial fertilizer as it did in 1937.

According to a study by the Indiana state chemist, F. W. Quackenbush, the cost per pound of plant food has increased only from 0.065 cents to 0.076 cents since 1937. Back in 1920, the cost was 0.116 cents per pound of plant food.

Plant food per ton of fertilizer has gone up from 318 pounds in 1920 to 497 pounds in 1947.

USDA Recommends 'Hopper Killers

After three years of widespread field and laboratory tests, entomologists in the USDA are recommending both chlordane and toxaphene for grasshopper control this year.

Both chemicals are available in several forms. The rate of application suggested is one pound of technical chlordane or one and a half pounds of technical toxaphene per acre as a spray. Use one and a half pounds of chlordane or two pounds or toxaphene per acre when applying.

Cows in milk or animals intended for immediate slaughter should not be put on treated pastures until a few weeks after the treatment has been applied.

Entomologists are not so worried about harm to the animals as they are about harm to humans. Some of either of the spray materials could show up in the meat or milk of animals grazed on treated pastures.

Controlling Borers In Illinois

Corn borer populations of 10,000 to 40,000 an acre in the stalks at the end of the season now are common in Illinois.

In a recent bulletin, "Corn Borer Control In Field Corn," University of Illinois specialists list the control measures they think work best:

(1) Get rid of stalks in the proper way before May 10. This means clean plowing. (2) Plant at the right time—on fertile soil about mid-May. Avoid very late planting. (3) Use adapted hybrids.

By adapted hybrids, they mean those hybrids which possess resistance to, or tolerance of, borer attack, and which are also high yielders of good quality corn in your area.

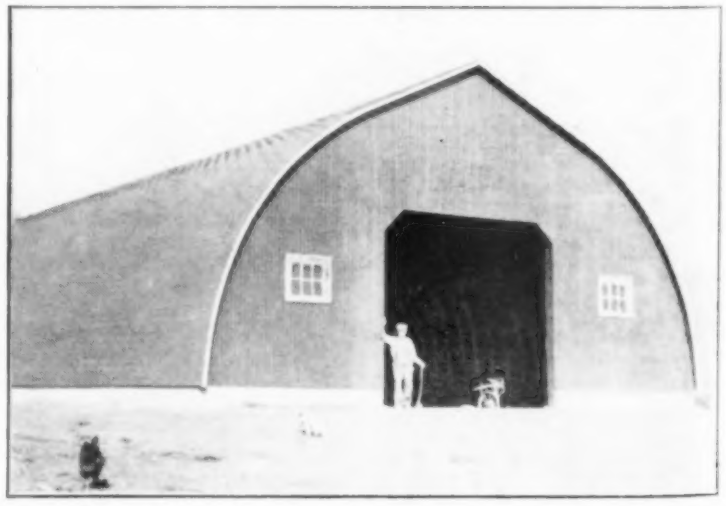
If insecticides are used, the University of Illinois men recommend DDT and Ryania as most effective.

Issue Warning About DDT On Cows

The National Agricultural Chemicals Association has issued a word of caution about applying DDT directly to milk cows until further information is available.

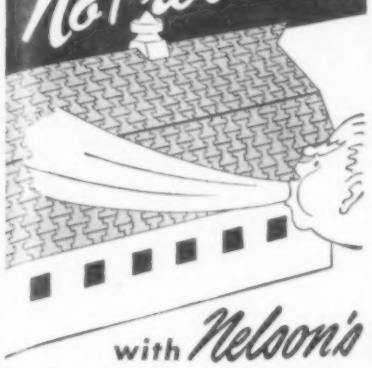
They indicate further research is needed to determine the safe level of DDT in milk and other foodstuffs. They also want more data on methods of applying DDT to stock, buildings, forage crops.

The NACA is working on a report which will cover the problems of residues left after spraying. The association represents many of the larger companies making agricultural chemicals.



There's Plenty of room in this new 40x80-foot machine shed built by Lester Ledvina, Tama county, Iowa. It is 23 feet high, has 15x15-foot doorway, stands on concrete foundation.

WIND is No Problem!



with Nelson's

MASTER-LOK Shingles

Wind can't harm Master-Lok Shingles because it can't get at 'em. A Master-Lok roof is *tight* against wind and weather. Master-Loks lock to each other, and lock down. Each shingle is self-locked to adjoining shingles at 4 places, each is secured by 6 nails. The wind can't lift and pry, snow and slush can't work up underneath. Master-Lok Shingles are easy to apply over old roofing. Get a free estimate.

B. F. NELSON MFG. CO., Minneapolis, Minn.

See your LUMBER DEALER

For Fruit Spraying

ASH GROVE LIME is tops!

Orchardists know Ash Grove Lime for these important spray-lime qualities . . .

- Extreme fineness
- High purity
- No unslaked oxides

. . . and they know, too, that its controlled uniformity saves time . . . saves wear on nozzles.

This year, specify Ash Grove Lime . . . sold by leading building material dealers.

ASH GROVE Snowflake HYDRATED LIME

PREVENT HORNS ON YOUNG CALVES AND KIDS

Use ASL D-HORN-R

SAFE-WON'T RUB OFF-PAINLESS

Sold by leading dealers.
American Scientific Labs., Inc.
Box 232, Madison 1, Wis.

FOR SALE—HIGH SPEED ROAD GEAR ATTACHMENT. 15 miles per hour. Easy to install, to fit John Deere Tractors A and B, also McCormick Deering, Regular Farmall, F20 and F30 Tractors.

BRIDGEPORT EQUIPMENT CO., INC.
BRIDGEPORT, NEBRASKA

HAWKEYE SOYBEANS—Certified
$5.50 F.O.B. Bu. DEAN FULPER, Galva, Ill.

Latch for double barn door is stock-proof. The notched board holds doors tightly shut.

New Wetting Agent For Sprays

Nytron is the name of a new wetting agent introduced by the Solvay Division of the Allied Chemical and Dye Corporation.

Laboratory tests indicate that Nytron will be useful in a wide variety of sprays.

It is soluble in hard or soft water, acid or alkali solutions, and with a wide variety of metallic salts. Its use is said to aid in the application and effectiveness of many insecticides and herbicides.

It improves wetting and spreading, helps prevent nozzle clogging, and improves suspension of DDT powders.

More Tests On New Type BHC

New benzene hexachloride products can be used on many crops without danger of odor or taste contamination.

This is reported by Dow Chemical Company after field tests of a new BHC formulation which is essentially pure (99 per cent) gamma isomer.

The lingering, unpleasant odor or taste has been one of the limiting factors of the first BHC formulas, which contained more beta and delta isomers.

BHC formulations made from 99 per cent pure gamma isomer may be used in sprays or dusts. They kill insects by contact, as a stomach poison and as a fumigant. Outstanding control is offered on aphids, grubs, wire-worms, grain weevils, ants and other pests.

Spraying Of Legumes Means More Seed

Spraying of clovers and alfalfa for seed production is important if the highest seed yields are to be obtained.

N. R. Aldrich, director of agricultural research for Keystone Equipment Company, says that farmers report increases of alfalfa of from one-half bushel to two bushels per acre.

Increases ranging from one to three bushels have been reported where red clover seed fields were sprayed.

Aldrich recommends a 50-50 mixture of DDT and chlordane, applied a week to 10 days before bloom, at the rate of one pound of technical DDT and one pound of technical chlordane in five to 10 gallons of water per acre.

Iowa Farmers Kill Weeds Fast With Twin Kill Weed Destroyer

This year save crops and increase yields by spraying to Kill weeds, corn borers and pests. Tried, tested and approved formulations of 2,4-D recommended by leading college authorities are supplied in Twin Kill 40 (Amine) and Twin Kill Ester.

Twin Kill 40 contains Iminol-D water softening agent. Twin Kill 40 (amine) has high potency in killing broad leafed weeds in corn fields, fence rows, small grain, pastures. Twin Kill Butyl Ester and Twin Kill Isopropyl Ester 2,4-D is fast in action and recommended by authorities for brush or weeds that are hard to kill.

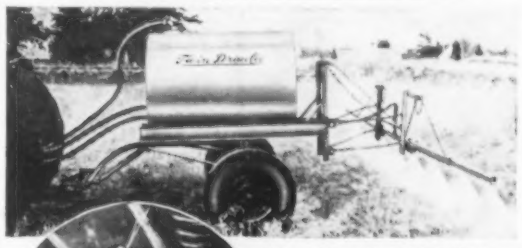
DDT for Corn Borers and Insects

Twin-Ezy Kill emulsifiable DDT is easy to spray and sticks to plants or insects. This 25% DDT formulation leads to Kill tests. It stays in suspension and goes through nozzles without clogging.

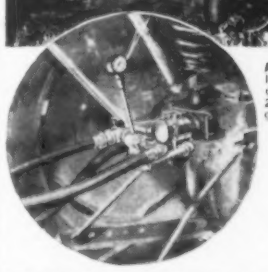
Chlordane for Grasshoppers

Twin-Ezy Kill chemicals for killing grasshoppers, spraying cattle or hogs are scientifically prepared.

Twin Draulic Sprayers



Above picture of Model **80-21** shows large capacity tank mounted on high clearance Trailer. Self powered. 23 ft. or 33 ft. boom with low gallonage nozzles.



Twin Draulic Power take-off pump gives adjustable pressures up to 300 lbs. for all purpose farm spraying. Easily controlled from tractor seat.

- High and low Adjustable Pressures
- Reinforced Boom gives rigid boom spraying with 4-Way Swing-joint safety and satisfaction.
- Boom height Adjuster
- Power Take-off or Self Powered
- 33 ft., 23 ft. and 5-row Booms

Save Up to $200

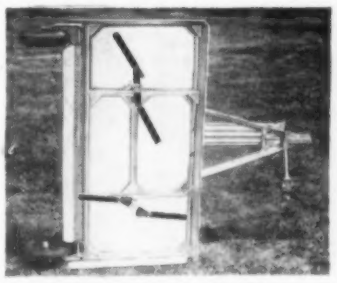
The Twin Draulic sprays 2,4-D to kill weeds as well as DDT to control corn borers or other chemicals for grasshoppers, etc. Faster spraying and doing a complete spraying job is what every farmer wants. Yet (and here is the best news of all) with all of these many features and improvements, this New Twin Draulic sprayer is priced so low that it saves you from $30 to $200 (depending on the size sprayer you require) on a tank type sprayer. See your Twin Draulic Dealer or send a post card for free circular on spraying to save money.

Nozzles

Twin Draulic nozzles are individually tested and guaranteed for uniform spray and correct capacity 5, 10, 15, 20, 30 and 40 gal. per acre capacities. Replaceable tips and strainers assure efficiency.

TWIN DRAULIC, Inc.
Dept. 32 LAURENS, IOWA

Wood's All Purpose All Weather ROTARY CUTTER



Two 40" cutting blades travel in approximately a horizontal plane at 1200 RPM—come in contact with the material that is being cut throughout 360° of travel—reducing it to mulch for easy absorption back into the soil, eliminating discing and allowing shallow plowing.

HORIZONTAL Cutting Blades Eliminates Clogging

Operates on Frozen Ground

- Simple and safe to operate—Wood's Rotary Cutter is the only *all purpose* heavy duty cutting machine on the market today! It operates equally well on frozen ground and cuts against the stalks and stubbles as well as with them.
- Wood's Rotary Cutter is so designed that the horizontal cutting blades are free from clogging and will shred any residue from corn stalks to weeds.

Let a Wood Rotary Cutter Simplify Your Spring Plowing

WRITE FOR FREE LITERATURE

WOOD BROTHERS MANUFACTURING CO., Oregon, Ill.

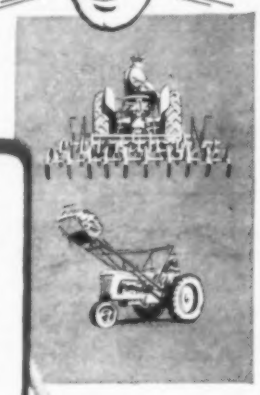
Buy a Bond to Help Your Country and to Help Yourself in Later Years

"Now I use my tractor for both Lifting and Pushing!"

WITH A

HI-LO-PAC

HYDRAULIC PUMP



The labor saving HI-LO-PAC makes your tractor more valuable than ever. Throw one of the levers to raise or lower plows, cultivators, mowers, combine platforms, grain drills, hay pushoffs, manure loaders. It will also angle or straighten disk harrow gangs and do many other jobs. Tillage implements are controlled by the double acting Char-Lynn cylinder. Mounting brackets are available for popular tractor makes and models (please specify). See your implement dealer, or write us.

- RUNS 2 HYDRAULIC SYSTEMS AT ONCE
- PRESSURES UP TO 1,000 LBS.
- CAPACITY—2½ GALLONS

Char-Lynn COMPANY
2843 26TH AVENUE SOUTH
MINNEAPOLIS 6, MINNESOTA

VALVES . . . CYLINDERS . . . BREAK-APART COUPLERS

YOUR HAMILTON DEALER has this

PROFIT BUILDING EQUIPMENT NOW!

CROSS COB ELEVATOR

All metal construction. Swivels from extreme left to extreme right. Fits all Cross Corn Shellers.

CROSS CORN SHELLER

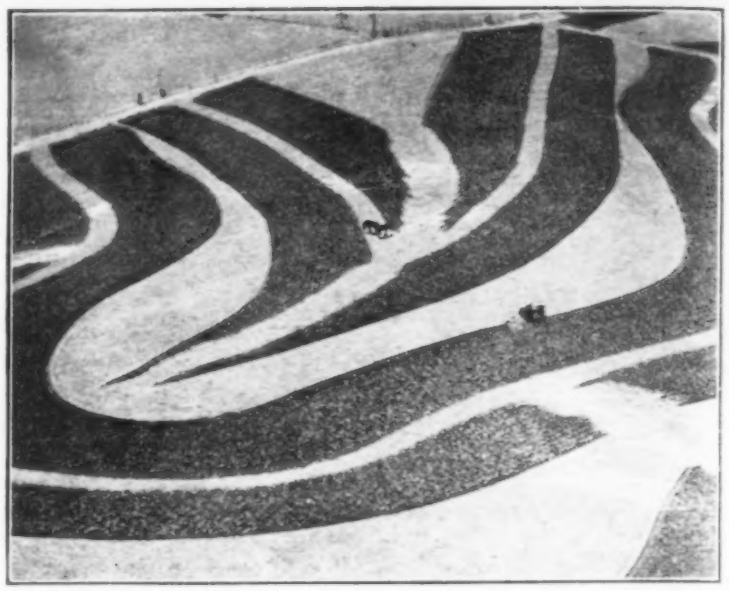
Economical. Capacity up to 200 bushels per hour.

Profits are realized through long-time planning. The wise farmer invests in equipment which is so constructed as to assure him years of service—with a minimum of breakdowns. Therefore the choice of these far-sighted "farmer businessmen" is Hamilton's superior Hi Line equipment. Hamilton's policy of pre-testing their Hi Line equipment on typical Iowa farms is your guarantee of satisfaction. Start building your profits by investing in these time and money saving items NOW!

SINCE 1869

THE Hamilton COMPANY

MAIN PLANT: CEDAR RAPIDS, IOWA
BRANCH: FORT DODGE, IOWA



Sharp Turns are a problem in contouring. Best way to avoid them is to leave a turn strip along ridge, as in center of picture. If the sharp corners at left center were completed, you could not turn with the cultivator or picker without knocking corn down.

Start Conservation By Contouring

Results On Your Farm Will Make You A Booster For Farming Around The Hills

WHETHER you have long, gentle slopes, or short, steep ones, contouring is one of the first steps toward working out a good soil conservation program. It helps hold fertility, and boosts yields. It helps stop soil and water loss.

To the man who has never grown corn on the contour, it looks like a bad job. At first, it's hard to figure out just where the rows are going.

But, as one farmer said after he'd contoured for a few years: "I wouldn't give a man his dinner to help me contour. It's easy once you know how."

How do you get started? You can get advice and technical assistance from the Soil Conservation Service, tho the help of a skilled technician is not absolutely necessary.

Maybe a lot of your neighbors farm on the contour. They probably can help you lay the first lines. Working together, the SCS technicians have held training schools for township AAA program men as well as other farmers in a number of counties.

SCS trained men who are paid by AAA are available for help in contouring.

Right now, in Iowa, there are about 600 township AAA program men who can help establish soil conservation practices. Most of these have also had training in soil sampling for fertilizer tests. Probably another 200 men will be trained for both jobs before the planting season is over.

Equipment is simple and inexpensive. Actually, you can make an outfit from a small level, a pocket mirror, a clothespin and a couple of boards.

If you want to contour your row crops, you should plow and disk that way. And don't worry about short rows. You'll have some. But you may have plenty of real long rows to even things out.

Start just below the brow of the hill—about where you can just see the skyline over the hill.

Some farmers don't use lath to mark guide lines. They prefer old newspapers at each point on the contour. Pile a little dirt on them and you can plow them under and don't have to run ahead to get the lath out of the way.

The idea in making a contour line is to find a series of points, about 100 feet apart, which are on the same level around the hill.

The man with the target goes about 30 steps ahead of the man with the level. He moves up or down the hill until the target is at the same height as the level. Then that position is marked.

Then the man with the level goes on past the target and sights back until he is again level with the target. That point is marked. And on around the hill you go.

Extreme accuracy, such as is needed for a terrace, isn't necessary. But you shouldn't let the contour line sag, for that collects water in the low spot, allows it to break over the rows and wash down the hill.

Once the line is plowed, keep plowing until the slope changes. Then run a new guide line and work both ways from it. Fill in with short rows where necessary.

Two words of caution: Don't plant the end rows up and down the hill. The contoured rows dump water in them and you breed a gully in a hurry.

And leave good, wide waterways. Most of the water-ways you've seen are too narrow. Leave them plenty wide.

If you are contouring down a long hog-back, and the rows make a fairly sharp "V," leave a turn-row right down the top of the ridge. Leave it wide enough for a hay loader and rake. You can use it for a turn-row and for a lane.

NEW!

DUAL PURPOSE BUILDING STORES SHELLED AND EAR CORN FOR AS LITTLE AS.....

30c PER BU.

You get **two** buildings for the price of one! The famous Bestfarm storage building has been adapted by Iowa experts to meet your bin and crib storage needs **flexibly** . . . as you need the space . . . and still have plenty of room for implement storage. Corn storage space is critical **now** . . . what will it be **five years** from now? Buy a handsome, solid aluminum covered, Bestfarm building and your grain and machinery storage problems are solved for a lifetime!

FREE! A postcard will bring pictures and full details on this amazing building that's saved middle west farmers thousands of dollars. Write today!

SPECIAL ALLOCATIONS FOR IOWA

BESTFARM BLDGS. INC.
BOX 405—APPLETON, WIS.

Dealer Franchises still available in some localities

Insure Future Prosperity

Dairy Cows are Your Best Insurance When Prices Decline

You can make sure that your profits remain consistent in the event of price declines! Here's the way: (1) Start to replace your dairy herd now. (2) Feed Blatchford's Calf feeds and watch your calves thrive on these quality Blatchford products. Let Blatchford's be your insurance for future prosperity. Get your supply at your local feed dealer or write us today.

2265

Blatchford's
WAUKEGAN • ILLINOIS

Ideal for **SOIL CONSERVATION**

The Original and Genuine

K-S Rotary Scraper

Build terraces, dams, fill gullies, etc., so much easier, faster and cheaper. Load, unload, spread, dump, bulldoze backward without stopping. One man and any farm tractor does all. 1/2-yard and 3/4-yard sizes. 2 models. Insist on genuine K-S—more used than all others combined. And Lower Priced! Prompt delivery from your dealer or direct from factory.

WRITE today for free folder and very Low Prices.

CENTRAL MFG. CO., 4924 Popplelton Avenue Dept. W-3, Omaha, Nebr.

NEW 1949
TIMBERHOG CHAIN SAWS

TIMBERHOG Gasoline-driven Chain Saws in one and two-man models of 20", 24", 30" and 36" cutting capacities...equipped with long life, chrome-plated chains . . . guaranteed rebuilt saws at reduced prices. See nearest dealer or write direct to:

REED-PRENTICE CORP.
WORCESTER 4, MASS.

LUTES COULTER BLADES

Fit any plow. Louvers or lugs on land side set as gears to the soil. Impossible for blades to stop turning while plow is in motion. Turn 15% faster at cutting edge, "slicing or shearing" cornstalks, soybeans etc. Allows regular jointer to turn under all trash! Unnecessary to buy expensive or complicated equipment. See your dealer or write factory for details. SEIDEN PNEUMATIC TOOL CO. Jackson, Michigan.

SAVE YOUR LIFE!

What happens if you look at a welding arc with your naked eye? N. J. Wardle, Iowa State College farm safety specialist, gives the answer in this true story.

"ED, WHAT'S the light out there in the kitchen?" Mary looked at the clock—it was 2 a. m.

"Likely one of the kids getting a drink," mumbled her husband.

They could hear the noise of glasses, then rummaging in a drawer and the tinkle of a spoon in a glass.

Mary called: "Is that you, Ted? What's wrong?"

"My right eye is stinging," Ted replied. "I'm washing it out with salt-water."

"Wait, Ted, don't!" Mary jumped from the bed, grabbed a robe and ran to the kitchen. "Don't ever use salt in your eyes."

Ten-year-old Teddy was perplexed. "Then what should I use? My eye hurts something awful!"

Mary looked at Ted's eyes. The skin on the right side of his face appeared sunburned, but the eye itself looked natural.

"What have you been doing? How did you get this sunburn?"

"I wasn't out in the sun. All I did was help Dad in the shop with that welding." Ted held his head and moaned with pain.

"I'll call the doctor; maybe he'll know what to do." Mary got Doc Jones on the phone.

Did the eye pain as if there were sand in it? Ted agreed it did. It was the welding, all right, the doctor decided. Ted admitted he had "peeked" at the arc several times.

Bathe Ted's eyes with a weak solution of boric acid for that night, the doctor instructed. Tomorrow Mary could get a two per cent butyn solution at the drug store and put a drop in each eye every two to four hours.

Many of you have arc welding outfits now. More farmers are getting them every day. It will pay to remember this: Don't work around the welder without a proper eye shield. The glass should be at least a No. 10 shade.

The arc's light causes a particularly pernicious injury because you don't notice the pain until several hours later. Anyone who has looked at the arc usually is awakened in the night by a burning of the eyes — "sand in the eyes."

Your whole body should be well protected by clothing, too. "Sunburn" from a welding arc can be very painful.

"Don't you know the rules? No dinners served after 2 o'clock!"

THEY'LL BE DEAD WEEDS WITH DED-WEED*

The Extra-Strength Weed Killers with PROVED Killing Power!

Thompson-Hayward's Ded-Weed, 2,4-D weed killer, is ready to kill your weeds—help you make extra profits. Positive killing power promptly eliminates weeds that rob your crops of sun and soil food. Available in a wide range of 2,4-D and the new 2,4,5-T formulations for hard-to-kill growth. Ideal for low volume use *in hard or soft water* for general weed and brush control.

KILL INSECTS *QUICKLY, EASILY*

Thompson-Hayward's insecticides include the proved and popular *Ded-Tox*, DDT Insecticides . . . *Toxichlor**, Chlordane Insecticides . . . *Tri-6**, *Benzene Hexachloride* Insecticides . . . and *Phenacide*, Toxaphene Insecticides. Thompson-Hayward has the proper insecticide, in the proper strength, to meet every insect problem.

FREE Helpful technical bulletins and folders on all Thompson-Hayward products. Write our nearest office for those you want.

Photos courtesy of Automatic Equipment Mfg. Co. and Keystone Trailer Co.

* Reg. U.S. Pat. Off. 94

MINNEAPOLIS OKLAHOMA CITY DES MOINES DAVENPORT ST. LOUIS

AGRICULTURAL **THOMPSON-HAYWARD** DIVISION KANSAS CITY, MO.

WICHITA CHICAGO OMAHA DENVER TULSA

YOUR BEST BUY--TODAY!

Starline BARN EQUIPMENT

STARLINE NELLIE

PUT-TOGETHER-AT-FACTORY READY TO INSTALL SAVES HIGH PRICED LABOR

Double Your Opportunity For Profits with Starline Barn Equipment — that helps you maintain peak production while saving you time and labor.

See your STARLINE Dealer today for bigger dairy profits tomorrow! Or write for Proved Plans. Dept. 559. Harvard, Ill.

SINCE 1883 STARLINE HARVARD ILLINOIS TRADE MARK REG U S PAT OFF

STARLINE, INC.
Harvard, Illinois
Albany, New York

—SAVE MONEY THE EASY WAY—BUY SAVINGS BONDS NOW—

WITH A HIGHER-SPEED
JOHN DEERE TRACTOR PLANTER

Save precious days at planting time—get your corn in when conditions are ideal for quick germination and rapid growth. It's easy if you own a speedy John Deere No. 290 Two-Row that check-plants up to 30 acres a day or a No. 490 Four-Row which has a daily capacity of 60 acres.

These tractor corn planters have high-speed valves that assure well-bunched, perfectly-checked hills even at 5 M.P.H. Natural-drop seed plates and sloping hopper bottoms guarantee the world's most accurate drop. Automatic markers, power lift with delayed-action drop, and flexible planting units are other advanced features.

Both two- and four-row planters work with practically any row-crop tractor. These planters can be used for checking, hill dropping, or drilling. A safety fertilizer attachment and other extras can be supplied. See your John Deere dealer for further information.

JOHN DEERE MOLINE, ILL.

E. H. (Jiggs) McDowell, popular young Birmingham, Van Buren County, Iowa, feed dealer, is shown with his Pay-U display which features three new Pay-U products, each scientifically developed to help relieve poultrymen of some of their poultry-producing worries.

3 New Products Make Poultry More Thrifty

"We're mighty proud to offer our friends three new Pay-U products that'll help relieve them of some of their poultry disease and insect worries," says E. H. (Jiggs) McDowell, of Birmingham, Ia., well-known and popular young feed dealer.

"In developing these new products, Pay-U has given us some of the newest developments of modern science. The three new products make up one of the best combinations I know of to help prevent disease, and also protects poultry from thrift and profit-robbing insects."

The 3 new Pay-U products are:

Complete Minerals: Highly concentrated. Contains every mineral ingredient poultry are known to need for thrift, fast growth and good development. Now available in new, easy-to-carry 50-pound bags.

Lice, Mite and Mange Powder: Contains benzene hexachloride. Packed in giant-size sprinkling can for dusting. Or can be mixed with water and used as a spray. Also effective against Sarcoptic Mange in hogs.

Drinking Water Tablets: Sanitizes poultry drinking water and any type of trough or fountain. Helps prevent water-borne disease. Use only two inexpensive tablets for each gallon of water.

If your Pay-U dealer does not have these new Pay-U products, write Pay-U Laboratories, Inc., Quincy, Ill.

Is He better off in a big school or a small one? That's what most folks are discussing in "Voice of the Farm" in this issue. But DeWitt Harker, Boone county, Iowa, has his own worries—homework.

Voice of the Farm

Wants Help For Small Schools

To the Editor: Where a community has enough pupils to hold a rural school, they should be helped in any way to hold it and secure good teachers.

The complete passing of the one-room school will come. But let's not get too much centralized control in the hands of people who don't know the farmer's problems. —Mrs. Ellis Miller, Henry County, Iowa.

Local control is a "must."—Editor.

Landlord Complains About Tenant

To the Editor: There may be some poor landlords, but just let me tell you of some tenants:

My farm is a good one, and all buildings except the house are less than five years old. My tenant has done everything anyone can think of—starved the cattle, failed to farm the land, tried to burn the manure, tried to handle another job. I farm on a 50-50 basis, so you can feature the result.

No, all tenants are not like him, so I'm taking another chance.—Ginger, Minnesota.

Better luck this time! — Editor.

Doesn't Want Horse And Buggy Days

To the Editor: Why don't people like the new school program?

Let's give our children a much better chance than we had. I feel sure the increase in taxes will well pay for itself. It will not only give our young people greater benefits, but we tax-payers also.

Very few young people get the opportunity to go to college. The streamlining of our present high schools will bring pupils to graduation prepared to support themselves without more schooling.

Let's forget the money. That will work itself out. Let's go ahead—not slip back to horse and buggy days.—R. E. Nelson, Delaware County, Iowa.

Which is more important: The quality of education or its cost?—Editor.

Wants Landlord-Tenant "Rating Bureau"

To the Editor: I think it too bad that landlords and tenants can not make reports on their business relationships to some bureau, so that prospective tenants and landlords could get the low-down on each other before signing on the dotted line.—N. R., Linn County, Iowa.

Why not just ask their neighbors?—Editor.

Likes Little Red Schoolhouse

To the Editor: It's a 10-mile ride to our school. We meet the bus a mile from the gravel. In the morning, there's no certain time—any time it gets there.

In the afternoon, the small pupils are dismissed at 3:30 and stand out in the weather until the bus comes, any time after 4 o'clock. Or they stay in the schoolhouse with no one to supervise them.

The little red schoolhouse can't be beat. It's there every morning. Teachers are able to see that their pupils are well wrapped for home. And every town should be able to afford a high school.

Give children a plain education in our country schools, and our penitentiaries won't be running over.—Mrs. William Dugdale, Monona County, Iowa.

Is "plain" schooling good enough these days?—Editor.

YOUR BEST BET IS A

PEERLESS JET

DEEP OR SHALLOW WELL SYSTEMS
120 to 7,500 Gals. per Hour
Lifts: To 120 feet For 2" Wells and larger

Have all the running water you require at a turn of the tap. Better health, better farming, added fire protection at low cost; all so easily yours with an automatic, dependable Peerless JET pumping system. Precision-built; only 1 moving part. Easy to understand, install, operate and maintain.

PEERLESS
WATER SYSTEMS

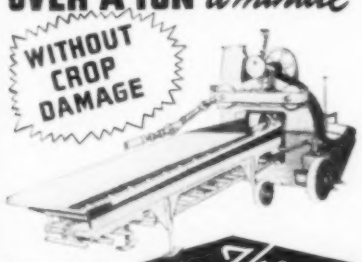
Mail Coupon for Free Bulletins

Peerless Pump Division
Food Machinery and Chemical Corporation
Indianapolis, Indiana

Send Free Literature on pumps checked below:
☐ Jet Water Systems ☐ Deep Well Turbine Pumps
☐ Water King Shallow Well Pumping Systems ☐ Deep Well Reciprocating Pumps for wells from 20 to 330 feet

Name
Address
Town State

OVER A TON a minute



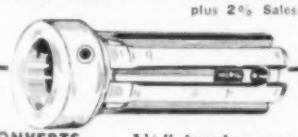
The NORTHLAND HIGH CAPACITY CROP BLOWER

Here's your answer for a Crop Blower that is fast and efficient . . . will operate at high capacity without plugging . . . operates on less power and equally well on all crops. Simple design and rugged construction to stand long use yet priced right . . . the last word in blower design . . . conveyor clutch control from either side . . . variable speed unloading control from either side of blower . . . and exclusive non-clog fan blade that prevents crop damage — a feature not found in any other blower — and this makes blower ideal for grain crops as well as forage crops. With specially designed draw bar one can quickly convert blower into a mobile unit. These are just a few exclusive features. Learn the whole story. Call on your implement dealer now! He has the crop blower you asked for.

SEND TODAY for FREE DETAILS

NORTHLAND ENGINEERING & MANUFACTURING CO. APPLETON, WISCONSIN

UNIVERSAL SPLINE ADAPTER . . . Now $5.50
plus 2% Sales Tax



CONVERTS . . . 1 1/8" tractor power take-off shafts to 1 3/8".
MACHINED . . . from high grade steel.
SEE YOUR DEALER OR ORDER DIRECT . . . If remittance accompanies order we will prepay. $1.00 deposit on C.O.D.'s.
L&M SALES, P.O.Bx.966, Sioux City, Ia.

—OUR ADS ARE NEWS—

"Be sure to tell me when it's time for school to let out. I don't want to keep fishing on my own time."

Why Not Inspect Canned Goods?

To the Editor: While we were enjoying our Sunday dinner of spinach, potatoes and pork chops, one of the children found a large green caterpillar on his plate.

As you can imagine, we are thru with canned spinach for good.

Why don't they inspect vegetables that are being canned? Don't farmers have to dump their cream if someone finds one tiny little hair in it?—Mrs. Peter Rozeboom, Sioux County, Iowa.

Most canners do a good job of inspection. Looks like you bought the wrong brand.—Editor.

Where Are City Hunters Now?

To the Editor: Since I hauled manure recently, a flock of about 40 pheasants has come here to pick up the waste feed.

It makes me wonder what happened to all the city hunters that stormed our fields last fall. How many of them said, "Here, Mister, is a dollar; throw out a bushel of corn for me next winter when the pheasants can't get anything to eat"?—Paul Jarehow, Fayette County, Iowa.

If hunters did that, they'd probably find farmers a lot more friendly toward them.—Editor.

Far-Away School Cuts Activities

To the Editor: I am opposed to centralizing of high schools because an adolescent child needs both home life and a completely rounded out education, including scholastic, social, arts and sports activities.

If the high school is 20 miles from home, his alternatives are:

1. Automatic exclusion from any activities which require his being at the school for regular evening practice.

2. Practice all day and skip regular classes.

3. Stay in for practice, pave his own way to juvenile delinquency from 3:30 to practice time, then hitch a ride home in the night.

4. Go to boarding school, at the expense of home life and college.

Result: An uneducated, undeveloped, half-person. — Mrs. James O'Connor, Clinton County, Iowa.

What about afternoon practice sessions?—Editor.

THERE ARE THREE kinds of weather: The kind we want, the kind the forecaster predicts we will have, and the kind we get. —Walnut Bureau.

MANURE SPREADER • LIME SPREADER
SELF-UNLOADING WAGON
IN ONE UNIT

MODEL 100

ALL OPERATIONS ARE POWERED FROM YOUR TRACTOR POWER TAKE-OFF

No other spreader gives you all these money-making, time-saving, work-relieving, modern, practical advantages. It spreads as thick or thin as the soil needs, whether standing still or moving. It will spread over any surface condition—snow, ice or slippery mud. All operations and speeds are controlled from the tractor seat including the LIME SPREADER attachment.

Slip off the beater-spreaders and you have a power-driven SELF-UNLOADING WAGON—attach extension sides for maximum capacity 100 BU.

Made of PERFECT-ALOY, which resists rust 4 to 5 times longer than ordinary sheet steel. Roller bearings and many other advance features which you must see and use to fully appreciate.

Cobey HEAVY DUTY WAGON MODEL 31-A

YOU NEED THESE WAGONS TOO

The only farm wagon unit with built-in hydraulic hoist operated by tractor power . . . tops them all for reducing hard work, speeding up operations, and hauling more efficiently. . . The Cobey 31-A, Dump Wagon carries and dumps a 4½ ton maximum payload. Can be furnished with any or all attachments shown.

MODEL 21-A HI-SPEED WAGON has a stationary mounted 100 bu. grain-tight box and all attachments except chopper body. Maximum capacity 3 tons.

THE PERFECTION STEEL BODY COMPANY
Dept. W-39 Galion, Ohio, U. S. A.

RETURN THIS COUPON

THE PERFECTION STEEL BODY COMPANY
Dept. W-39 Galion, Ohio, U. S. A.
Please send me complete information on items checked.
☐ Power Driven Spreader ☐ 11-A, Wagon Gear
☐ 31-A, Dump Wagon ☐ Utility Wagon Boxes
☐ 21-A, Hi-Speed Wagon ☐ 2-Wheel Trailer
☐ 2-Wheel Tilting Platform Wagon

Name
Address
City State

Cobey FARM EQUIPMENT DIVISION

April is

"The Magic Month"

for FLAX!

For a few magic weeks each spring, nature showers down all her blessings on growing Flax. Every day you gain in the fast-fleeting month of April is extra insurance against the drouths and hot winds of July . . . and it gives Flax a head start on weeds.

A 10 day head start in sowing can actually swell your Flax yields 20% to 25%

This isn't guesswork! It's been proved at agricultural colleges in North Dakota, South Dakota, Minnesota, Iowa . . . and on hundreds of Northwest farms.

For best yields—use a good variety of seed Flax, clean it, treat it, *and sow early.*

"We sow Flax as we can get it in," says W. N. Baxter, Mallard, Iowa. "By putting it in ahead of oats or anything else, it not only has a better chance of getting ahead of the weeds, but moisture conditions are likely to be more favorable."

PASTE THIS COUPON ON A PENNY POSTCARD

FLAX DEVELOPMENT COMMITTEE
710 Roanoke Building • Minneapolis 2, Minnesota

● Please send me the free booklets checked:
☐ How to Choose Your Best Crops for 1949. ☐ New Flax Grower's Guide

Name
R. R. No.
Post Office State

YOUR BEST BET IS KENT

BOY, OH, BOY! KENT STARTER REALLY HELPS ME GROW!

19% GREATER GROWTH! 32% MORE PROFIT!

Yes, in a recent *Independent* test against 7 competitive brands, KENT 20% CHICK STARTER (Granules) surpassed them all. KENT-fed chicks averaged 19.2% heavier than the competitors' average at the end of the 7 week's test, and 4.5% heavier than the best competing brand.

Make sure you get better results with your chicks . . . buy KENT. A baby chick will eat only about a thimble-full a day, so buy the best!

YOUR KENT DEALER WILL OUTLINE A PROFITABLE AND EFFICIENT FEEDING PROGRAM FOR YOU!

KENT 35% PIG & SOW MEANS MORE SOWS' MILK AND FASTER GROWING PIGS!

MOM . . . PLEASE BRING ME SOME MORE KENT!

The most important part of a pig's life are the first 75-100 days. KENT 35% PIG & SOW CONCENTRATE fed with your grains is recommended for nursing sows and little pigs. The sows need to furnish a good flow of milk and the pigs need plenty of protein and vitamins for building sturdy frames for the fattening period to follow. A balanced ration "super-fortified" with all necessary nutritional elements is your best assurance of these goals.

If your sows haven't farrowed yet, start feeding them this PIG & SOW CONCENTRATE now. Order a supply today!

SEE YOUR LOCAL KENT DEALER!

MISSISSIPPI VALLEY GRAIN & FEED CO. - Muscatine, Ia.

3 NEW FEATURES FOR THE G.P.&F. Cream City HOODED DAIRY PAIL

1 New, heavy, round, welded handles . . . easy to carry . . . sanitary . . . no dirt traps.

2 Increased curvature at inside bottom of pail . . . easier to clean . . . no place for milkstone or bacteria to collect.

3 A heavy second bottom is welded on over the original bottom . . . plenty of durability . . . *plus* a smooth surface that really cleans easily.

● Add these new features to all its other advantages, and you have the last word in convenient, sanitary, seamless solderless dairy pails.

See it at your dealer or milk plant.

Also see G. P. & F. Open Top Dairy Pails; Seamless Solderless Milk Cans; and Sky-Test Filtering Strainers.

G.P.&F. GEUDER, PAESCHKE & FREY CO.
Milwaukee 1, Wisconsin

COMBAT CORN BORER
SHRED CORN STALKS
INCREASE SOIL TILTH

Sensational New

PIONEER MOWER and SHREDDER

YOU CAN SAVE DISKING TIME—Chop stalks, stubble, pasture weeds and brush faster, easier, better with new PIONEER MOWER and SHREDDER. Here's why:
SPECIAL TOOL STEEL BLADES—Extra sharp and extra heavy whirling at 1,400 RPM's chop heaviest stalks, trash, brush, stubble to bits. GETS EVERYTHING IN ROWS — BETWEEN ROWS—Horizontal blades cut closer to ground . . . suck up stalks, trash, weeds in rows, between rows. EXTRA HEAVY CONSTRUCTION—Built for hard use. MOUNTED ON TIMKEN BEARINGS—For easy draft. SAFE—Whirling Blades completely covered. A.S.E.A. STANDARD 3-JOINT POWER TAKE-OFF DRIVE. MAKES GOOD PLOWING EASIER—Permits plow to bury corn borer as recommended by U.S.G.A. Order now for spring delivery.

SPECIAL DEMONSTRATION OFFER! Write today!

PIONEER EQUIPMENT CO. Blair, Nebraska

UNITED STATES SAVINGS BONDS BOUGHT NOW PAY SURE DIVIDENDS

Farm News Briefs

BETTER 1948 CROPS in most countries, and good prospects for 1949, have taken part of the edge off post-war food problems. But a third of a billion people still live under bread-rationing.

▲ ▲ ▲

NET FARM INCOME in the U. S. dropped last year for the first time in 10 years. Net income in 1948 was 2 per cent under 1947—due mostly to an increase in production expenses.

▲ ▲ ▲

FARM REAL ESTATE debts went up again in 1948. U. S. farm mortgage debt now is about five billion dollars, highest since 1944, and about half a billion more than the low point in 1946.

▲ ▲ ▲

PRODUCTION CREDIT associations which paid dividends to members on capital stock last year include two in Iowa—the PCA's at Harlan and Perry.

▲ ▲ ▲

IOWA SHEEP and Wool Growers Cooperative has re-elected President LeRoy Getting, O'Brien county, Vice-President Don Pullin of Black Hawk county, and Secretary-Treasurer A. J. Marken of Franklin county. M. Glen Birlingmair, Des Moines, is manager.

▲ ▲ ▲

IOWA'S Mrs. Raymond Sayre, of Warren county, is on her way to Germany on a mission for the army. Mrs. Sayre, who is president of the Associated Women of the American Farm Bureau, will help develop organizations of German farm women.

▲ ▲ ▲

PARITY RATIO for Iowa farmers dropped to 99 last month—the first time it's been under 100 since 1941. Index of prices received by farmers dropped 15 points, to 261 (1909-1914 equals 100). But prices paid for things farmers buy went down only 12 points.

GRESS ROGERS, extension director in Marion county, Iowa, will move to Tama county, May 1. He'll replace Burns Byram, resigned.

▲ ▲ ▲

MT. AYR and Newton chapters are winners of the 1949 Iowa FFA soil conservation contest. Each chapter will get a new Ford tractor equipped with plow, disk, scoop, field cultivator and blade.

▲ ▲ ▲

LIVESTOCK DEATHS as a result of winter storms in South Dakota, Nebraska, Wyoming and Colorado add up to 81,000 cattle and 97,000 sheep and lambs, reports the U. S. Department of Agriculture. That's about 2 per cent of the cattle and 5 per cent of sheep on hand in those states January 1.

▲ ▲ ▲

GENETICS RESEARCH at Iowa State College gets another $18,000 from the Rockefeller Foundation — making a total of $78,000 received for this purpose. The money is being used to study the connection between inheritance and disease resistance, and the meaning of "hybrid vigor" and how it works.

▲ ▲ ▲

THREE IOWA rural electric co-ops have been given new REA loans to extend their lines. The Calhoun county co-op will add 131 new users, the co-op in Hardin county will add 162, and Woodbury's co-op will take on 476.

▲ ▲ ▲

KERMIT HANSON, Iowa soil supervisor for Soil Conservation Service for the past three years, has been transferred to St. Paul, where he will serve as Minnesota state soil scientist for SCS.

▲ ▲ ▲

COMING EVENTS: March 18-19, Minnesota State Spring Farrow Show, Albert Lea; April 21-23, Iowa FFA convention, Cedar Rapids.

PAW TUCKER—"Cheer Up, Paw; There's Still Plenty of Time"

SH-H-H

. . . It's exceedingly quiet with only one moving part

McDONALD MISSISSIPPI DELUGE

HYDRO JET WATER SYSTEM

So smooth, so quiet, so dependable you can forget all about it. The McDonald Hydro-Jet System is interchangeable from shallow to deep well or vice versa and may be installed at the well or offset. It's small, compact, and exceptionally efficient with famous McDonald quality and dependability engineered into every part. Capacities from 160 to 1880 gallons per hour.

For the convenience you've always wanted insist on a McDonald Water System — whether it's the Hydro-Jet or deep or shallow well reciprocating types. They're all backed by a 93 year reputation for satisfaction and service.

See your McDonald dealer now — or write for complete information and recommendations

A. Y. McDONALD MFG. CO.
DUBUQUE, IOWA

AMERICA'S OLDEST MANUFACTURER OF A COMPLETE LINE OF DOMESTIC PUMPING EQUIPMENT

Bishman Wagon Unloaders

AT LAST! A simple, Long Life, inexpensive wagon unloader. Complete (3) wagon setup costs less than others charge for one. Save money! Save your back!

For full particulars fill in the coupon below:

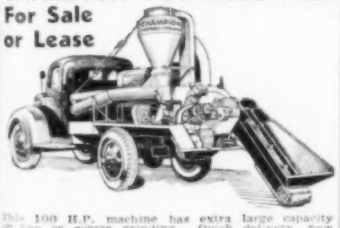
I own ....., do not own .....
a Forage Harvester ..... Corn
Picker ..... Am buying a Wagon
Unloader .....
Name .....
City .....
RFD..... State.....

Dealers Contracts Available!

Write

Waseca Implement Co.
WASECA, MINNESOTA

CHAMPION PORTABLE MILL
For Sale or Lease



This 100 H.P. machine has extra large capacity on fine or coarse grinding. Quick delivery, now at reduced units with ground level automatic feeder. Will lease complete unit to reliable men without investment or expense. Buy later if desired.

CHAMPION PORTABLE MILL COMPANY
2105 Como Ave. S. E. Minneapolis 14, Minn.

"Old at 40,50,60?" — Man, You're Crazy

Forget your age! Thousands are peppy at 70. Try "pepping up" with Ostrex. Contains tonic for weak, rundown feeling due solely to body's lack of iron which many men and women call "old." Try Ostrex Tonic Tablets for pep, younger feeling, this very day. New "get acquainted" size *only* 50c. For sale at all drug stores everywhere.

LEG SUFFERERS

Why continue to suffer without attempting to do something? Write today for New Booklet — "THE LIEPE METHODS FOR HOME USE." It tells about Varicose Ulcers and Open Leg Sores. Liepe Methods used *while you walk*. More than 40 years of success. Praised and endorsed by multitudes.

LIEPE METHODS 3284 N. Green Bay Ave., Dept. C-43 Milwaukee, Wis.

FREE BOOKLET

PATENTS Write for information on what steps an inventor should take to secure a patent.
Patrick D. Beavers, 952 Columbian Bldg., Wash. 1, D. C.

What About Ladino?

LADINO makes an excellent pasture crop—if managed properly under the right soil and moisture conditions.

This giant white clover has not been recommended for general planting in Iowa because it is touchy on several points.

Main drawback of ladino, says H. D. Hughes, of Iowa State College, is that it is shallow-rooted, so suffers whenever moisture is short or summer temperatures are unusually high. Hughes thinks the legume will have its greatest use in the northeast Iowa dairy area.

Careful management is required, even where ladino is used as a pasture crop. It can't stand close grazing—should never be grazed closer than three or four inches.

And it's apt to cause bloat unless at least 40 per cent of your pasture mixture is grass.

But ladino is a high producer if it's on good soil, gets plenty of moisture, and is managed right. It is extremely aggressive, spreads rapidly, and usually rates a high preference with livestock.

Hughes says ladino grows best on a sweet soil, and responds to phosphate and (on many soils) to potash. It's well suited for heavy soils that drain slowly, where alfalfa and clovers have a tendency to heave.

These seeding suggestions are made by Hughes: Add one to two pounds of ladino seed per acre to your regular clover-grass mixture seeded in oats. It will show its best stand the second year, when alfalfa and red clover begin to thin out. That's the time to start pasturing it.

Ladino is hard to cut and cure, so only the first year's crop is practical for hay. And it doesn't do well with sod-forming grasses such as blue grass.

Since it's difficult to tell the difference between ladino and ordinary white clover seed, Hughes suggests that you buy only certified seed.

Old Milk, Cream Cans Can Be Retinned

Extra milk and cream cans around your place can be made as good as new by retinning.

A. W. Rudnick, Iowa State College dairyman, says that retinning costs are about half the price of a new can—and added quality of dairy products will make the job pay.

Rust flakes in old cans add to sediment content. Rusty seams and rough spots make good bacteria harbors. Keeping quality of butter made from cream marketed in rusty cans is lowered. And rusted surfaces may give butter an oxidized flavor.

Rudnick suggests that dairymen in a community get together and send their cans in one shipment for retinning. The job takes about two or three weeks if done properly.

A list of companies doing retinning work can be obtained from A. W. Rudnick, Iowa State College, Ames.

Does Your Hard Jobs Every Month of the Year

SIEBRING DUZ-ALL TRACTOR-LOADER

DUZ-ALL lifts, loads, forks, scoops, and does dozens of other jobs BETTER than ordinary loaders because of its improved type of *balanced lift* construction. Load always evenly distributed on powerful twin hydraulic hoists. This *better* loader at a *lower* price fits all makes of row-type tractors. Attached or detached by one man in less than 15 minutes. TRY THE DUZ-ALL at our risk! RUSH name and address TODAY for 10 DAY FREE TRIAL offer, illustrated literature, and prices.

3 LABOR-SAVING ATTACHMENTS

SIEBRING TRACTOR LOADER MIXER

gives you a feed mixer right on your farm. Also can be used to mix cement . . . treat seed . . . slop pigs . . . and do other mixing jobs.

SIEBRING EASY-DUZ BULLDOZER

levels barnlots, roads, etc; cleans off snow.

SIEBRING SWEEPRAKE

built in dump type or push-off type . . . stacks, moves or loads your hay without any back-tiring work.

SIEBRING MFG. CO.
Dept. WF-5 George, Iowa

New! All-Purpose, All-Season

CENTURY FARM SPRAYER

with Exclusive MASTER Control Panel (Patent applied for)
For Faster, Easier, Safer Spraying
Operates from Tractor Seat

Does Every Spraying Job . . . Faster, Safer, Easier!

- *ONE* lever to control spray in right, left and center booms, in any combination desired.
- Big, husky, gear-type pump . . . pressures up to 300 lbs. . . . volume up to 480 gallons per hour.
- 3-way filtering to prevent nozzle-clogging.
- 21 ft. boom (6 rows) . . . 3 separate sections. Protected against rust and corrosion.
- Use 55-gallon oil drum or Century 80-gallon galvanized tank.

Century Sprayers manufactured by company with 25 years experience . . . replacement parts always available. Written guarantee with every sprayer. *See it now!*

Distributed in Iowa by:

THE HAMILTON COMPANY
Cedar Rapids • Fort Dodge

MANUFACTURED BY
CENTURY ENGINEERING CORPORATION FARM EQUIPMENT DIVISION
CEDAR RAPIDS, IOWA

Blenn
Swift's
Specialized Crop Maker

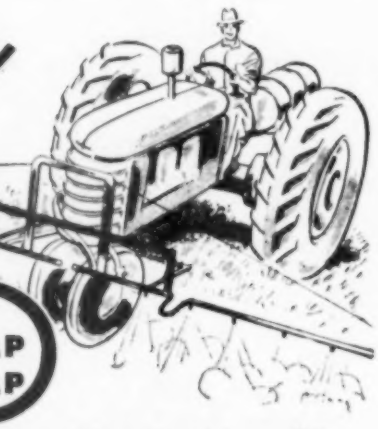
To hear him talk, Zeke's been everywhere—and other places besides. But it is true that in grain-growing sections you'll find higher-yielding crops grown with BLENN, *Swift's specialized crop maker*. BLENN furnishes that balanced combination of growth elements that corn and other grain crops require. Right from sprouting time on, it promotes sturdier growth . . . plants that pay off with extra dollars at harvest.

Feed your corn and other spring grains BLENN. You'll see the difference it makes . . . a faster start, uniform growth throughout the season, much-higher-than-average yields. What's more, BLENN helps produce the extra quality that brings top price. Order BLENN from your Authorized Swift Agent today.

Buy at the sign of the RED STEER

SWIFT & COMPANY

NO Spotty SPRAYING



IMPROVED
R-H
Ester WEED-RHAP
Amine WEED-RHAP

Assures EVEN Distribution

KILLS WEEDS IN CORN, WHEAT, OATS, GRASSLAND PASTURES

Kill bindweed, ragweed, mustard, cockleburs, thistles, sunflowers and other weeds in field crops with R-H WEED-RHAP.

Improved R-H Ester WEED-RHAP contains "REASOL 33", new Reasor-Hill discovery. This new emulsifying agent assures an even, uniform coverage under all spray conditions.

R-H Amine WEED-RHAP now contains "REASOL 99", a new Reasor-Hill wetting agent development. "REASOL 99" ends clogging troubles caused by hard water. Makes spray mix easier and assures even coverage.

"CHEMICAL WEED CONTROL"

Ask for this new Free Booklet describing the easy way to kill weeds . . . with chemical spray. An easy-to-use application booklet that answers your weed spraying questions.

Get Your FREE Copy Today!

REASOR-HILL CORPORATION
Jacksonville, Arkansas • Kansas City, Missouri

—SAVE MONEY THE EASY WAY—BUY SAVINGS BONDS NOW—

Urea Powerful Feedstuff

To the Editor: I have been hearing a lot lately about urea. What is it? Is it a good protein supplement? How much should you feed?—M. L., Winnebago, County, Iowa.

Strictly speaking, urea is not a protein supplement at all. It is a synthetic nitrogen compound from which bacteria in the stomachs of ruminants (cattle, sheep, goats) can manufacture protein.

In other words, when you use urea in livestock feed, you aren't actually feeding the animals themselves. You are feeding bacteria which, in turn, manufacture protein which the animals can use.

Urea has no usefulness in the feeding of non-ruminants (horses, hogs, poultry) because they can not change its nitrogen into protein.

Urea in a form suitable for mixing in livestock feed now is being made by Du Pont under the name "Two-Sixty-Two" — so called because one pound of urea contains enough nitrogen to make 2.62 pounds of protein.

Tests have indicated that "Two-Sixty-Two" can be used to furnish up to one-third of the protein required in rations for cattle and sheep.

But, since it is a highly concentrated product, it should not be used by farmers in its original form. The manufacturer recommends it for use only in the mixing of commercial feeds where its blending with other materials can be carefully controlled.

Several commercial supplements containing urea are now on the market. They should be fed according to the manufacturers' directions.

Are You Asking For Accident?

How good are the brakes and lights on your car? If they are only average, you may be asking for trouble.

Suppose you're driving at night under good conditions — clear weather, dry paved road. And suppose your brakes, lights and eyesight are "average good."

If a dark obstacle is on the road ahead, says the Iowa Department of Public Safety, you can't possibly get your car stopped until you're 50 to 75 feet beyond it.

The result: You have to hit the obstacle or swerve to miss it. Either way, you'll be lucky to avoid a smash-up.

The solution: Check your lights and brakes. And slow down at night.

"We'll have that tooth out in a minute, son."

Everybody WANTS A GEHL
FORAGE HARVESTER

Yes, everybody who sees it operate acclaims its *superior performance and greater value* per dollar. Order early to be sure you get a Gehl. Like those famous Gehl feed cutters and silo fillers used since the first silos came, Gehl Forage Harvester has a cutting mechanism that REALLY CUTS . . . clean, uniform and fast. Works swell on windrowed hay or combined straw. Makes haying an amazingly fast job . . . saving time, men and money. One man operates it. Puts hay where you want it, and in half the space. With row-crop attachment, makes the same savings in filling silos . . . makes silage that packs well and keeps well. Separate blower sends the forage to silo or any part of mow. Equipped with own engine, or with power take-off.

Designers and builders of Forage Harvesters, Hay Chopper-Silo Fillers, Hammer Mills, Portable Feed Mills.

FREE literature and dealer's name on request.

GEHL BROS. MFG. CO.
Dept. MC-161
WEST BEND, WIS.

There's nothing better than a GEHL

LOOK!
CHAMPION Ready-Built HOG HOUSES
CHEAPER-BETTER-EASIER THAN YOU CAN BUILD YOURSELF

COST LESS than any on-the-job type. STRONGER, STURDIER — better built. MORE ATTRACTIVE — better designed.

CHAMPION "SQUARE" HOG HOUSES
In 2, 3, 4, 6 or 8 pens. Size of pens 6'x6' and larger. With or without alleys.

CHAMPION "ROUND" HOG HOUSES
In 2, 3, 4, 6 or 8 pens and up to 30-pen sizes.

CHAMPION Ready-Built CORN CRIBS

And Champion GRAIN BINS

In many sizes. Cost less per bushel per year. PAY FOR YOUR STORAGE BY SEALING. The outstanding high quality farm buildings at moderate cost. Write—

WESTERN SILO CO.
DEPT. W-3 WEST DES MOINES, IOWA

RHEUMATISM
1909 **RELIEVED** 1949

40 years' experience in the treatment of arthritis, neuritis, sciatica, lumbago and gout, Hypertension (high blood pressure), Hypotension (low blood-pressure), Dermatitis (Eczema and Psoriasis). Also Obesity. Separate Departments for men and women. Two Resident Physicians. On U. S. Highway 212. Tel. Shakopee 123.

Write for Booklet C.

MUDCURA SANITARIUM, Shakopee, Minn.

One-man SALLY SAW portable
Gasoline motor. Fells and cuts up. Wghs. 63 lbs. Free Folder
Your farm implement dealer or write Dept WF
$223.50 F.O.B. Boston
CUMMINGS MACHINE WORKS Boston 10, Mass.

BUZZMOBILE
CUTS WOOD LOT COSTS

Nothing else like it! Sturdy all-steel power circular saw fells trees, clears brush, saws limbs, cuts wood. Lowest price by far. Write for details.

$149.50 complete with engine

ROCKLIN MFG. CO. SIOUX CITY 7, IOWA

WORMY PIGS? Doctor Hinrichs' Hog Powder. Fed in feed. No starving. 5 lbs. $3 Postpaid. HINRICHS REMEDY CO., WALCOTT, IOWA

HAWKEYE SOY BEANS — Blue tagged. State certified. wholesale, retail. $5.00 per bushel. STEVE TURNER FARM SEEDS, Pontiac, Ill.

These rugged walking or riding tractors ideal for farm, truck garden, orchard, poultry farm. Operate on a few cents an hour. A child can handle them.

DO DOZENS OF JOBS — The Shaw Du-All or Peppy-Pal does many jobs quickly and easily. Plows, cultivates, harrows, disks, bulldozes, sprays, hauls, grinds, and saws wood.

BUILT FOR RUGGED WORK—Sturdy, extra-strength construction means low upkeep, long life. Year's guarantee.

LOW FACTORY PRICES

Buy direct or through your dealer! Almost anyone who owns a garden can afford a Shaw Du-All or Peppy Pal. Mass production holds prices down—quality up.

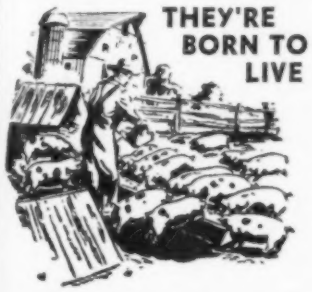
RIDING TRACTORS

4 models, from 5 to 12½ H.P., 68 in. wheelbase, 36 in. wide, 24 in. plant clearance. Hand or electric starter. Improved steering device, brakes enclosed in differential housing. Heavier frame and bearings. Standard hitch for trailers and wagons. Plow, harrow, cultivator, cutter bar, snow plow, bulldozer available.

FREE: Illustrated folders giving complete details, price lists — write today!

SHAW MFG. CO. 4903 Front St., Galesburg, Kansas
668WF North 4th St., Columbus, O.

SEE THESE TRACTORS AT
INTERNATIONAL FLOWER SHOW
GRAND CENTRAL PALACE, SPACE 250
NEW YORK CITY — MARCH 21 to 26
and
NATIONAL COUNTRY LIFE EXPOSITION
COMMERCIAL MUSEUM, SPACE 547
PHILADELPHIA — APRIL 11 to 16



REDUCE BABY PIG LOSSES
DUE TO NUTRITIONAL ANEMIA
—USE—

TRACITE

Tracite is a medium of supplying trace minerals. Essential for formation of hemoglobin in the blood. Supplies trace elements essential for reproduction and lactation.

Inquire about our treatment for necro and bloody scours.

WRITE
M & M Livestock Products Co.
Dept. W-2 CLARION, IOWA

Manufacturers of Drug, Trace Mineral, and Vitamin Compounds for Livestock and Poultry.

KEEP YOUR FIELD-TILE Open

The Economical New
FARM - ROD
Cleans Field Tile of Roots, Mud and Other Debris.
Runs by HAND POWER or Tractor Take-Off
NO UNNECESSARY DIGGING
ELIMINATES FLOODED FIELDS
Cleans tile 3" or larger in diameter. Comes in handy, easy to use 25-foot sections which will clean from 5 ft. up to several hundred feet from one opening. Don't wait 'til Spring. Do it now. Write for FREE folder. Give full particulars.
ROTO-ROOTER CORP.
Dept. 10E Des Moines 14, Iowa

NATIONAL MOWER CO.
855 Cromwell Ave., St. Paul 4, Minn.

The National Sickle Bar Mower has a proven record of satisfaction. 38" Sickle cuts grass, hay, weeds. Full pnuematic tires, two clutches, good traction, easy to handle. Used for years by U.S. Gov't., Railroads, State Highways, Farms, Estates, Orchards, Cemeteries, Golf Clubs, etc.

KEEPS GROUNDS CLEAN AND BEAUTIFUL

THE NEW Duplex ROTARY SCRAPER

Most modern, simplified scraper on the market. Automatically loads. Bulldoze backwards. Many other exclusive features. "Patd."

Write Today for Details and Literature
DUPLEX CONSTRUCTION CO., Dept. 8-12
21st and Locust Sts. East Omaha, Nebraska

Save Money, Buy Bonds

First Aid for Stock

Vaccinate Hogs For Mixed Infection

To the Editor: What is the difference between mixed infection in hogs and swine erysipelas? — L. T., Jefferson County, Iowa.

Mixed infection is caused by a mixture of germs. A barn lot or any place where stock has been kept for a long time may harbor the germs. Mixed infection lowers vitality.

Infected hogs then often fall victims to bowel disorders and sometimes pneumonia when the weather is cold and wet.

Erysipelas is caused by a specific germ. It also lives in soil where there is much organic matter. It may cause death in young pigs. Or it may show up as a chronic disease that does not kill but causes skin sloughs and lameness.

Mastitis Germs Like Dirty Barns

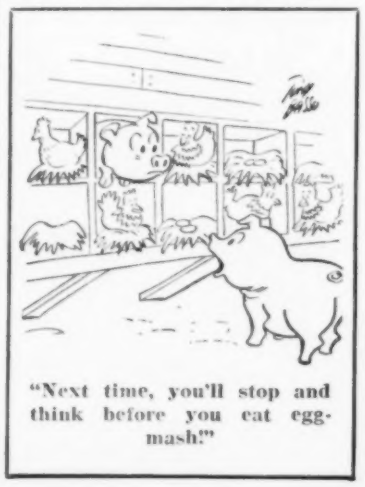
Ten to 15 different types of organisms have been found to cause mastitis. And some of them can be found in filth and manure on any Iowa farm—ready to give the disease a start if they get into an injured udder.

That's what Dr. John B. Herrick, dairy veterinarian at Iowa State College, has been telling Iowa dairymen at Better Milking Clinics this winter.

In a recent issue (February 19), Doctor Herrick was misquoted as saying that the several mastitis-causing organisms actually may be found in the udders of undiseased cows—where they lie in wait until an injury occurs.

Presence of some kinds of mastitis germs in all dirt and manure is the reason Doctor Herrick says: "Sanitation is a prime essential in the control and prevention of mastitis. Treatment alone will not do the job."

The veterinarian reminds dairy farmers that there is no "shotgun" treatment for mastitis. "Penicillin will work on some types of mastitis and not on others," he says. "That is why a laboratory examination of the infected quarter is necessary to determine the type of organism we are dealing with so we know what drug to use."

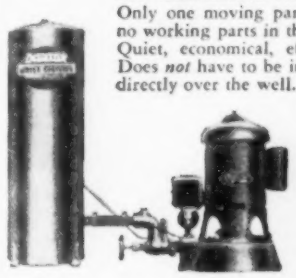


"Next time, you'll stop and think before you eat egg-mash!"

Your WATER WORRIES GO THE DAY DEMPSTER WATER SUPPLY EQUIPMENT ARRIVES

SHALLOW WELL EJECTOR TYPE PUMP
Self-priming. Greater capacity. One moving part. Quiet, dependable. Piping outlets conveniently arranged.

DEEP WELL EJECTOR TYPE PUMP
Only one moving part, with no working parts in the well. Quiet, economical, efficient. Does *not* have to be installed directly over the well.



DF-1-49

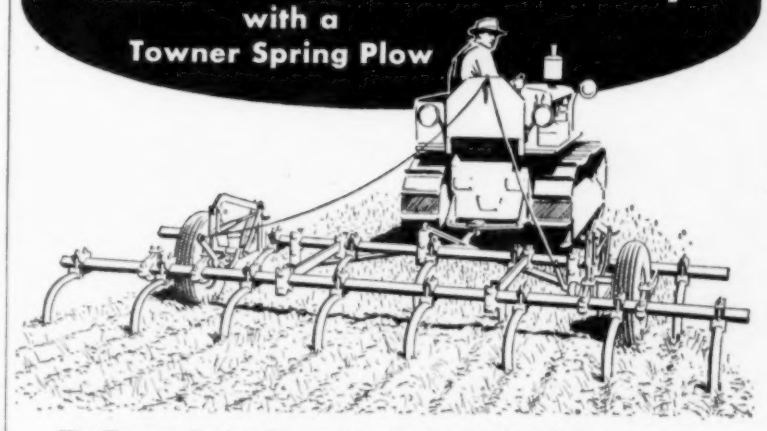
HERE ARE THE FACTS
You may need one of the above illustrated pumps or you may need a plunger type pump.
DEMPSTER'S new booklet will help you get ready for running water. It's full of facts you must know to choose the *right* water system . . . and it's yours for the asking. Get your copy *now!*

SEND THIS COUPON FOR FREE BOOKLET

DEMPSTER WATER SUPPLY EQUIPMENT

Dempster Mill Mfg. Co.
617 S. 6th St., Beatrice, Nebr.
Send my FREE Fact Booklet at once.
Name.....
Address.....
Town..... State.....

Reduce Soil Erosion Two Ways with a Towner Spring Plow



The Towner Spring Plow will soon pay for itself in greater crop yields by reducing your soil erosion two ways:

1. **REDUCES WIND EROSION.** The miniature mountains and valleys created by each plow shank, together with a forest of binding stubble, reduce the wind speed at the ground, and prevent loss of soil from wind.
2. **REDUCES WATER EROSION.** Sturdy, specially designed shanks penetrate the hard pan and shatter it, so that rain falls to the subsoil, instead of running off (and carrying your most fertile soil with it).

This two-way action against erosion adds up to bigger, healthier crops . . . not only this year, but in years to come.

Check these Spring Plow features at your nearest Towner Dealer:
Special, heavy duty plow shanks
Hydraulic or Mechanical Control—from the tractor seat
9 other uses for your plow chassis
A size for every tractor

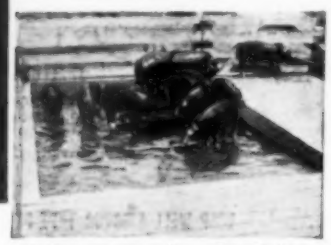
TILL WITH TOWNER "Best in Earth"

Ask your Towner Dealer for a demonstration

or write
TOWNER MANUFACTURING COMPANY
SANTA ANA, CALIFORNIA
Since 1915

FOR MORE WEIGHT with less feed

Mud wallows harbor harmful bacteria, may spread disease. And a mud-hole hog contaminates the food it eats.



A clean concrete wallow safeguards hog health—saves work for you. Soon pays for itself in the extra profits you make. *Photographs by Portland Cement Association*

Build your hogs a wallow of concrete made of Lehigh Cement. They'll be more comfortable . . . gain weight faster through the summer heat. Here's what farm records show: hogs with sanitary concrete wallows, as compared to those without, average 14 lbs. more gain on 10 lbs. less feed per 100 lbs. of weight gain.

Make bigger profits on your hogs. Save more shoats per litter. Keep them on concrete from farrowing to market. Your Lehigh Dealer can give you sound advice on all concrete construction work. See him the next time you are in town.

3 men and a boy . . . in 3 days . . . with 43 sacks of Lehigh Cement . . . 4 cu. yds. sand and 5½ cu. yds. gravel . . . with a concrete mixer . . . CAN BUILD THIS 15-HOG WALLOW AND FEEDING FLOOR.

If your dealer can supply you with ready mixed concrete, you can do the work with less labor.

LEHIGH CEMENTS

LEHIGH PORTLAND CEMENT COMPANY
ALLENTOWN, PA. • CHICAGO, ILL. • SPOKANE, WASH.

SAVE WORK AND BOOST YOUR YIELDS

New COATS CORN STALK SHREDDER

This advanced Coats Corn Stalk Shredder will give you bigger crops, and save work, too. Shreds old stalks with one trip through the field. Saves one trip on spring discing. Shredded stalks build up the soil **faster.** You get **bigger** yields. Pulverizes old stalks . . . leaves no place for corn borer worms to hibernate.

LOOK AT THESE EXCLUSIVE FEATURES!

Shredder box enclosed on three sides. Checks dust and debris. ● Wider hoppers get **more** between the rows. ● Easily adjusts from tractor seat. ● Available with swinging hammers or edged knives. ● Famous Coats replaceable spindles. ● Wheels equipped with Timken bearings. ● Quality construction throughout. See what this great Shredder can do for YOU. WRITE for free illustrated circular TODAY!

COATS LOADERS & STACKERS, INC.
DEPT. D, FORT DODGE, IOWA
"Known for Dependable Equipment"

MILITARY TRUCK PARTS

Every part for every G.I. type vehicle from jeep to 20-ton prime mover 6x6. 40% to 80% below list.

COMPLETE STOCK OF PARTS FOR STANDARD M-2 CONVENTIONAL CARS AND TRUCKS

New - used - rebuilt Truck operators, dealers, salvagemen, learn about amazing low prices.

SEND FOR FREE CATALOG

NORTHWESTERN AUTO PARTS CO.
834 NORTH SEVENTH STREET-MINNEAPOLIS, MINN.

FACTORY PRICES ON FARM FENCE

WRITE for FREE CATALOG

ROOFING—FARM NEEDS. Farm, Poultry, Lawn Fence. Heavily Galvanized. Barb Wire, Posts, Gates, Irons, Bale Ties, Electric Fence, Kennel Pens, Perch Rails.

WE PAY THE FREIGHT

Get our low prices before you buy Roofing, Paint, Poultry-Barn Equipment, Ventilators, Feeders, Wagon Gears, Boxes, Tanks, Pump Jacks, Water Systems, Sinks, Cabinets, Milking Machines, Cement Mixers. Factory-to-Farm Prices. Write today for free copy new mail order catalog.

INTERLOCKING FENCE CO., Box 526, Morton, Ill.

Farm and Feed-Lot

What Ration For 500-Lb. Steer?

To the Editor: I bought some steers that weigh about 450 to 500 pounds, and plan to feed them about 250 days. How much corn and hay will it take per steer to feed them that length of time?—W. C., Scott County, Iowa.

Here are some average rations for fattening steers to be fed 200 days or longer. These rations are from Morrison's "Feeds and Feeding."

1. Red clover hay, 4 to 5 pounds; corn, 11 pounds; protein supplement, 1 pound.

2. Clover and timothy hay (30 per cent or more clover), 4 to 5 pounds; corn, 11 pounds; protein supplement, 1½ pounds.

3. Alfalfa hay, 4 to 5 pounds; corn, 11 pounds; protein supplement, ½ to ¾ pound.

These are average rations, and some adjustment will have to be made during the feeding period. Rex Beresford, of Iowa State College, says that about two pounds a day of corn for each 100 pounds of steer is an average full feed. But the rations above will give you a fair idea of the amount of feed needed.

Corn Fodder Will Make Silage

To the Editor: I have fed up all my silage, but have about five acres of shocked corn fodder. The cows don't like the dry chopped fodder very well. Now I have been thinking of blowing it into my silo, adding water, and making silage from it. Will this work?—R. W., Cerro Gordo County, Iowa.

Yes, you can make silage from your dry corn fodder. There are three things to look out for—chop it fine, add lots of water, and tramp it down well.

Experiment stations say that silage should contain 25 to 40 per cent dry matter, or about one part dry matter to two parts moisture. If your corn fodder contains about 20 per cent moisture now, you would blow in 1,600 pounds of dry matter and 400 pounds of water in each ton of fodder.

To bring the moisture up to 60 per cent, you would have to add 2,800 pounds, or about 348 gallons, of water per ton of fodder.

As an alternative, you might consider just chopping the fodder, and, to improve its palatability, you could pour over it some molasses when feeding to make the stuff taste better.

Treat Flax Seed, Sow Early

You'll have more luck with flax this year if you follow these tips:

Treat seed with New Improved Ceresan or Ceresan M at least 48 hours before sowing. Iowa tests show treatment has boosted flax yields an average of about five bushels an acre.

Seed early. Best time, says Iowa State College, is at oat-sowing time—or as early as the soil can be worked.

Make a firm seed-bed. It helps to pack before seeding, using a press drill, and pack again after seeding unless blowing is a problem. Says Iowa State College:

"It is doubtful whether any Iowa farmer will ever prepare a seed-bed which will be too firm for flax or the clover or alfalfa which may be seeded with it."

Feed Calves Right To Avoid Scours

You'll have less trouble from calf scours and other digestive upsets if you follow these feeding tips from the University of Illinois:

Never feed a calf too much milk. Hold the daily quota down to 10 per cent of the calf's weight.

Be sure the milk is at body temperature—100 degrees.

Use clean feeding pails — just as clean as your regular milk buckets.

Don't use very rich milk. Feed calves at regular hours, too. And don't change their feed suddenly.

Honey handling has been simplified by Beekeeper Russell Smalley, Boone county, Iowa, with ramp to second story of his honey house. Truck is backed up ramp to unload honey and bee equipment.

HUDSON'S NO "CITY SLICKER"

L. J. TRACEY, Lorimor, Iowa

The new Hudson is a great car on the farm. As L. J. Tracey, a farmer near Lorimor, says for "looks, comfort and handling ease, you can't beat the new Hudson."

Like many Iowa farmers L. J. Tracey bought his Hudson from The Hudson Jones Company in Des Moines.

Hudson Jones, Iowa's oldest and largest Hudson dealer, has the most complete parts and service departments. Satisfaction is guaranteed. Write **today** for free literature or demonstration. Hudson Jones address is 1408 Locust, Des Moines . . . and, remember, **Hudson Jones serves all Iowa.**

CRACK DOWN on WEEDS

MODERNIZE YOUR CULTIVATOR

with Russell WEED-CONTROLORS. Cash in on bigger yields, lowered costs, and weed-free crops by cultivating with this farm proven cultivator attachment. Russell WEED-CONTROLORS scientifically destroy weeds in the plant row without hoeing, spraying, or pruning plant roots. *Write or see your distributor for literature.*

Mfg. by Russell Mfg. Co., Caro, Mich.

DERRICK FARM SERVICE
506 Securities Bldg.
Des Moines, Iowa

Build Your Own

POWER MOWER

Spindle equipped with Timken Bearings. 19 in. spring steel blade.....$11.95

19 x 1.75 tire and wheel, ball bearings, ½" bore. Each $1.75

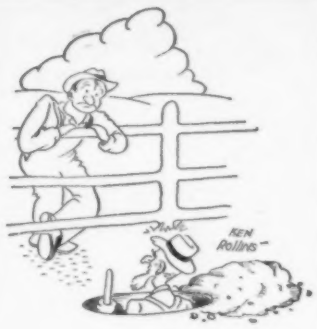
Unit of Spindle, Blade and 4 wheels..$17.95

GARVEY MFG. CO., INC.
Storm Lake, Iowa

FOR SALE—COMBINE UNLOADING AUGERS to fit Baldwin, Oliver 30, Minneapolis Moline G1, 2, 3, 4, John Deere 17, Case K12 and A6, McCormick-Deering No. 122, 123 and 125. This is the fastest and newest auger on the market. V-Belt Conversions for No. 122, SP123 and SP125 McCormick-Deering Combines. Hodges Auger Grain Elevator, with hopper, three-wheel carriage; nothing like it. Write

BRIDGEPORT EQUIPMENT CO., INC.
BRIDGEPORT, NEBRASKA

BUY U. S. SAVINGS BONDS NOW



"Yep, I'm digging a shelter—what with atom bombs, nature and congress in session, you can't tell what might happen!"

High Profits From Brome Seed Crop

Shortage of brome grass seed means that farmers with the know-how can make good returns by producing it.

Virgil Hawk, head of the SCS nursery at Ames, says you can realize as much as $300 an acre with high yields of certified seed. But poor yields of low-quality seed can knock the return as low as $10 an acre.

Nitrogen is of top importance in brome grass seed production. Hawks says an extra 10 pounds of seed can be harvested for every pound of nitrogen applied. Nitrogen application should never be less than 40 pounds per acre, and often should be as heavy as 100 pounds.

Brome seeded alone in rows and fertilized in late October gives the best results, according to Hawk.

One drawback, he says, is that harvest methods are behind the times. Best method still is binding, shocking and threshing.

Hogs Gain Faster With APF

Hogs gain faster on less feed if their ration includes APF (animal protein factor), Iowa State College tests show.

In an experiment started December 1, weaned pigs were fed a ration of corn, soybean meal, dehydrated alfalfa meal, mineral mix and Vitamin D-2. They gained an average of 1.36 pounds per day.

The addition of APF jumped that gain to as much as 1.76 pounds per day—a 29 per cent increase. And feed consumption dropped 12 per cent.

Animal protein factor isn't a protein at all. It's a combination of Vitamin B-12 and other vitamin-like substances. First discovered in chicken and cow manure, it gets its name from the fact that it is found in most proteins of animal origin, such as tankage, meat scraps and fish-meal.

Several commercial companies have learned to make APF synthetically and pilot plants are now in operation.

While APF adds a hiterto missing factor to livestock rations containing only vegetable proteins, Dr. Damon Catron, of Iowa State College, does not think that it will replace animal proteins entirely.

Instead, says Catron, it will serve to extend supplies of meat scraps and tankage — of which there never has been enough to go around.

FREE Weed Control Counsel Service

Helps you control weeds on your farm

1 Just write us the questions that bother you

2 We'll answer them, free of cost or obligation

Does Not Clog Sprayer Nozzles

DR. SALSBURY'S **Weed-Kill**

2,4-D (Amine Form)

Dr. Salsbury's Weed-Kill, (Amine form) contains a special agent that prevents precipitation of 2,4-D. Gives you effective weed control . . . with trouble-free application. Especially formulated for use with the hardest waters.

Weed-Kill is the favorite of many successful farmers in your area. So, for easier . . . more effective weed control, buy Dr. Salsbury's Weed-Kill, today. Available in either Amine or Ester forms. At hatcheries, drug, feed stores, elevators and implement dealers.

Fill Out and Mail Us this "Question and Answer" Coupon . . .

Write on the Margin of This Advertisement Other Questions You Want Answered

Check the questions you want answered:

(a) Is it safe to spray Minerva flax with 2,4-D? ( )
(b) When should 2,4-D be applied to winter wheat? ( )
(c) How much 2,4-D should be applied to field bindweed in spring wheat? ( )
(d) At what growth stage should 2,4-D be applied on oats? ( ) On corn? ( )
(e) Is there a toxic effect on the soil from use of 2,4-D? ( )
(f) Has there been a lot of crop damage from use of 2,4-D, both to the crops sprayed and to adjacent crops? ( )
(g) How much care must be used in applying 2,4-D to insure against an overdose? ( )
(h) How much will it cost me, per acre, to use 2,4-D? ( ) I plan to spray.....acres.
(i) What kind of 2,4-D should I use—"Ester" or "Amine"—on the following kinds of weeds on my farm . . .

Check these and write other questions you may want answered. Tear out coupon, sign your name and address and mail at once to

Dr. Salsbury's Laboratories,
Charles City, Iowa

Name .....
Address .....
R.F.D.....State.....

A Name You Can Depend Upon

DR. SALSBURY'S LABORATORIES
Charles City, Iowa

Dr. SALSBURY'S

HAGIE'S

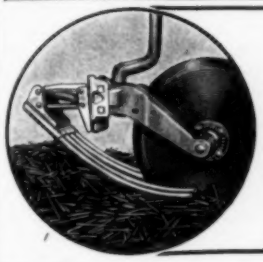
ORIGINAL HI-CLEARANCE SPRAY CARRIER

Solve your every spraying need with a self-propelled spray carrier that gets the spray where you need it—when you need it.

Sprays crops from the pre-emergence stage to full growth —Boom adjustable from operator's position from ground level up to 7 feet—Powered by Wisconsin motor — Adaptable for the spray equipment of your choosing—Tested and proven in 21 states and Canada.

WRITE

HAGIE MANUFACTURING CO.
DEPT. WF-2
CLARION, IOWA



CHOICE OF CHAMPIONS

STUTE TRASH GUARDS Endorsed by Nat'l Plowing Champions

Gives you faster, easier, cleaner plowing with less time, less work. Completely turns under all trash. Positively will not clog. Spring steel—patented "knee action" principle—will not interfere with jointer. Quickly attached—nothing to take off your plow. Tested and proved. Lowest priced.

See your dealer or write giving make and model of your plow, number of bottoms and whether it has cast or steel coulter yokes.

POSITIVE TRASH CUTTING—PLOWING AT ITS BEST

Stute Mfg. Co., 750 Spring St., Varna, Illinois

Do your buying from firms advertising in WALLACES' FARMER and IOWA HOMESTEAD. If you do not find in WALLACES' FARMER and IOWA HOMESTEAD the articles you want to buy now, just let us know what you want and we will be glad to give you names of reliable firms from whom you can make the purchase.

MYERS water systems

your widest and wisest choice

You get every **proved** advancement in a Myers Water System—many exclusive to Myers. And most important, you get the system that fits your needs to a "T". The world-famous Myers line provides for every possible requirement . . . with five distinctive Plunger and *Ejecto* Type Systems . . . each designed to **out-perform** on its specific pumping job. Quality, dealer service, reputation and all other important points considered — you're way ahead with a Myers-guaranteed Water System. See your Myers dealer soon. Mail coupon.

THE F. E. MYERS & BRO. CO.
Dept. N-40, Ashland, Ohio

Send free literature on items checked below.
☐ Water Systems ☐ Power Sprayers
☐ Power Pumps ☐ Hand Sprayers
☐ Hand Pumps ☐ Hay Unloading Tools

NAME
TOWN STATE
COUNTY R.F.D.

REASON IT OUT AND YOU'LL PREFER THIS

ALL-VEGETABLE LAXATIVE

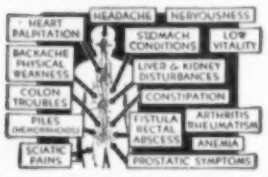
NATURE'S REMEDY (NR) TABLETS—A purely vegetable laxative to relieve constipation without the usual griping, sickening, perturbing sensations, and does not cause a rash. Try NR—you will see the difference. Uncoated or candy coated—their action is dependable, thorough, yet gentle as millions of NR's have proved. Get a 25c box and use as directed.

Nature's Remedy NR TO-NIGHT TOMORROW ALRIGHT

FUSSY STOMACH?
RELIEF FOR ACID INDIGESTION, GAS AND HEARTBURN
EAT LIKE CANDY TUMS 10¢ STOMACH DISTRESS
FOR THE TUMMY!

Fistula May Often Result From Piles

FREE BOOK — Gives Facts On Associated Ailments



A new, illustrated 40-page book on Fistula, Rectal Abscess, Piles and other rectal and colon disorders is now FREE to all sufferers. Write today — a card will do. Thornton & Minor Clinic, Suite 325, 926 McGee St., Kansas City, Mo.

FOR SALE—LARGE STOCK OF 32-VOLT ELECTRIC APPLIANCES; fans, refrigerators, washing machines, home freezers, heavy duty bench grinders, electric motors, cream separators, milking machines, churns, electric drills, hair clippers, shavers, irons, toasters, heating pads, combination radio and phonographs, vacuum cleaners, Dormeyer food mixers. Write for literature and prices.

BRIDGEPORT EQUIPMENT CO., INC.
BRIDGEPORT, NEBRASKA

BUY U. S. SAVINGS BONDS NOW

Maple Sugar making hasn't completely disappeared. Neighbors and town friends help J. E. Frary, Henry county, Iowa, make batch every year. Frary (left) and Sam Milligan skim cooking sap.

Hurry Garden With Cold Frame

If You Don't Want To Buy Started Plants Here's How You Can Grow Them At Home

IT ISN'T too late to do something about hurrying things along in the garden. One way is to buy started plants from greenhouse owners or hot-bed gardeners. It certainly will not pay the average small gardener to bother making a hot-bed to start a few plants for his own use.

But a cold-frame is a good substitute. It requires much less work and is quite foolproof.

The cold frame is just what the name implies. Unlike a hot-bed, the cold-frame uses no artificial heat. It depends on sunshine alone to get things started.

The south side of a shed, garage or other building is an ideal location if there will be all-day sunshine on the cold frame.

If such a spot is not available, almost any sunny place can be warmed by making a tight board backstop three feet high and well nailed to firmly-driven stakes. This, of course, to serve as the north side of the cold-frame.

One or two storm windows can then be removed from the warmest side of the house. These windows — and the family garden needs—will determine the size of the frame of boards you need to support the sash.

The north side of the frame should be a foot or so higher than the south side. This will give slope to the windows, which should be at least six or eight inches above the seed-bed.

Sash should fit snugly to keep out cold air. Should there come a frosty night, some canvas covering over all will give the necessary protection.

Extra good garden soil should be provided. Add some sand and finely pulverized peat moss to the soil to make it rich, responsive and readily handled without becoming unduly packed.

Mix the soil in a wheel-barrow or mortar-box, then shake thru a sand or gravel screen to insure a uniform, easily-handled soil.

After soil is placed in the frame, it can be leveled and firmed with a board. Straight rows for planting can easily and quickly be made with the straight edge of a thin board.

Tomatoes, pepper and similar seeds germinate slowly and should be started at once—in March. There's not quite so much hurry about cabbage, cauliflower, broccoli and head lettuce. Their seeds germinate easily and quickly, and are ready for open-garden planting in about half the time required for the first group of plants.

Seeds should be carefully planted, spaced and covered by hand. It is easy to get them too thick, which means the seedlings will have to grow upward and spindling instead of making the stocky plants we like for transplanting.

When only a few plants are needed, two or more varieties may be planted in a single row. Little stakes of smooth pine should be used for the name of each variety.

Some of the seeds in the package should be saved for later plantings in the open garden.

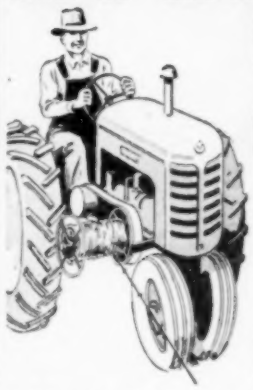
Seeds should have ample moisture. And it is surprising how much water will be needed if the weather is favorable for growth.

For the first few days, the newly planted seeds can be covered with burlap or paper, to retard evaporation. Remove paper or burlap as soon as plants are breaking thru the ground.

Light, careful stirring of the soil may begin as soon as plants are showing. As plants near the transplanting stage, the glass may be removed during warm afternoons. Strong plants should soon be ready to help the gardener make up for any seasonal delays.—Victor Felter, Warren County, Iowa.

FERTILIZER mixed with 2, 4-D is for lawns only. You'll kill plants you don't want to kill if you take this mixture to your garden or flower beds.

Roll or unroll wire FAST and EASY with a RAPID WIRE REELER



● Rolls and unrolls barb wire, check-row or smooth wire—at speeds up to 20 M.P.H. Midwest Rapid Wire Reeler is belted to any row type tractor in a matter of minutes. Adjustable pulley. Double-acting heavy duty clutch keeps wire tight. NO EXTRA SPOOLS TO BUY. Each roll of wire can be slipped from spool and stored. Fully guaranteed. Dealer inquiries invited. WRITE TODAY FOR FREE CIRCULAR.

THE MIDWEST WIRE AND STEEL PRODUCTS CO.
535 So. Concord St. South St. Paul, Minnesota

AUTO PARTS
NEW - USED - REBUILT
WE'VE GOT 'EM

Motors . . . Transmissions . . . Radiators . . . Starters . . . Grilles . . . Springs . . . Generators . . . Heads . . . Water Pumps . . . Carburetors . . . Knee Action Units . . . Shocks.

No matter what parts or accessory you need for your car, National can supply your automotive parts needs.

OUR STOCK

All parts sold over our counter, shipped or bearing our seal, either new, used or rebuilt are thoroughly inspected . . . rechecked . . . and guaranteed for satisfactory performance.

SHIPMENTS

No waiting . . . no delay. Inquiries answered. ORDERS SHIPPED SAME DAY RECEIVED. Low prices guaranteed. Shipments made C.O.D. or open account to rated firms. ALL PARTS SOLD ON POSITIVE MONEY BACK GUARANTEE.

NATIONAL AUTO PARTS CO.
11th & Harney, Dept. W-25, Omaha 8, Neb.

SHEAR YOUR OWN SHEEP *Sunbeam* with STEWART *famous* **SHEARMASTER**

MORE WOOL
MORE PROFITS
LESS LABOR

Fast, easy-to-use electric Shearmaster removes fleece in a few minutes. Gets 10% more wool than hand blades from same sheep. Retains maximum length of wool fibre, wool grades higher—brings more money. Powerful, cool-running motor inside special EASY-GRIP handle. Rugged, built-in durability. Has year 'round use for shearing the flock, tagging, crutching, removing wool from dead sheep, etc. Only $39.75. Write for bulletin "Harvesting the Farm Flock Wool Crop."

SUNBEAM CORPORATION
(*formerly* Chicago Flexible Shaft Company)
5600 W. Roosevelt Rd., Dept. 101, Chicago 50, Ill.

KILL WEEDS *Walsh* **BOOM SPRAYERS**

Your choice of easily installed tractor, trailer, or end-gate models. 16, 20, 24 foot booms. Patented money-saving features. No-leak joints. Low gallonage, low cost operation. Learn why farmers prefer a Walsh. Write for Free literature.

WALSH MANUFACTURING CO.
CHARLES CITY, IOWA

Behlen Hand-Hydraulic WAGON DUMPER

Here's a handy dumper! Takes only 90 seconds to dump heaviest loads. A boy can do it, like jacking up your car.

Dump anything — *anywhere!* Wagon box raises plenty high (see photo). Wheels stay on ground. No need to unhitch horses or tractor.

Behlen Hydraulic Wagon Dumper fits most all wagons. Reasonably priced. Thousands in use. Full particulars in FREE illustrated folder. Fill out coupon now!

Behlen Mfg. Co., Columbus, Nebraska

DON'T WAIT! MAIL TODAY!

Behlen MANUFACTURING CO.
COLUMBUS, NEBR., DEPT. S12

Gentlemen:
Please send me FREE illustrated folder on Behlen Wagon Dumper, and name of conveniently located Behlen dealer.

Name_____
Route_____
Town_____ State_____

WINPOWER FERTILIZER SPREADER

PAYS OFF IN BIGGER YIELDS

Here's the key tool to bigger, better crops —more income. Tractor-seat flow regulator —diamond shaped distribution ports—chopper type agitator—waterproof steel hopper. Spreads in rows or broadcast—1200 lbs. cap.—no waste. Engineered for lower cost use. Write today for free illustrated folder.

WAREHOUSE DISTRIBUTOR
NOKES DISTRIBUTORS
613 6th Ave., Des Moines, Iowa

WINPOWER MFG. CO. NEWTON IOWA

KOSCH TRACTOR MOUNTED POWER MOWERS

"The mower with the cutting bar in FRONT!"
For FARMALL H&M and JOHN DEERE A&B
Write for FREE LITERATURE today!

KOSCH MANUFACTURING COMPANY
Dept. WF-1, Columbus, Neb.

Farmer's Friend GRAIN ELEVATORS

First Choice of America's Farmer for Over 40 Years

All steel cup elevators that support their own weight—sag-proof. Models to fit any crib. Custom built—factory installed. Write for catalogue and name of nearby dealer.

G & D MANUFACTURING CO.
Dept. E-33 Streator, Illinois

WE BUY BURLAP AND COTTON FEED BAGS
Pay Highest Prices. Freight Paid. LINCOLN BAG CO., 7108 Dartmouth, University City, Mo.

Buy a Bond Today!

Bucket of maple sap is emptied by J. E. Frary, Henry county, Iowa. Here's one place where horses still are useful.

How Much Chlordane For 'Hoppers?

To the Editor: Have you any information about 45 per cent chlordane for the control of grasshoppers? Is one quart of chlordane mixed with eight gallons of water per acre enough?—O. H., McLean County, Illinois.

One quart of chlordane emulsifiable concentrate at 45 per cent strength by weight contains one pound of actual chlordane. For grasshoppers, apply from one-half to one pound of actual chlordane per acre, regardless of the amount of water used.

So if your sprayer is set to put on eight gallons per acre, mix one quart of the 45 per cent chlordane to put on one pound of actual chlordane per acre. One pint in eight gallons would put on one-half pound of actual chlordane.

Aluminum Good—If Used Right

Aluminum makes a satisfactory roofing and siding material for farm buildings—if it's properly used.

That's the report of Alvin Dale and Henry Giese, Iowa State College agricultural engineers.

They list these advantages for the light metal: It's long-lasting and requires no paint. It has good insulating qualities—is somewhat cooler in summer than most roofing materials.

But, say the engineers, aluminum may give poor service if not properly installed.

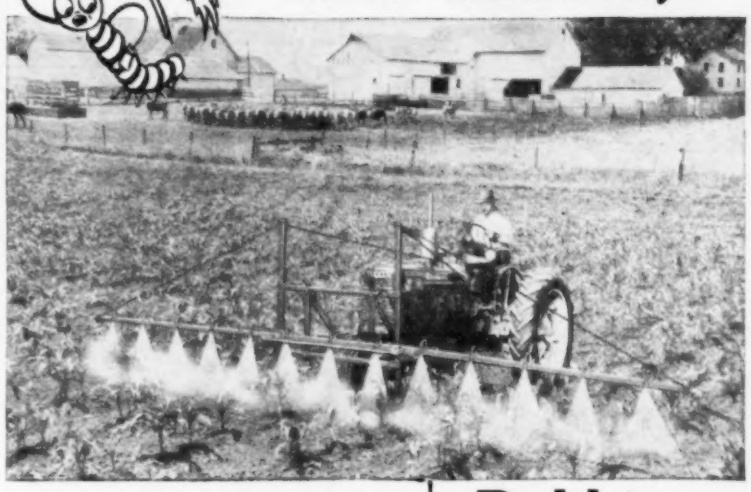
Brace buildings properly from within and use plenty of sheathing under the aluminum — the metal itself hasn't much strength.

Use plenty of nails. And be sure they are screw or ring-shank aluminum nails — preferably with synthetic rubber washers. They should be at least an inch and a half long. Bend and nail down over gable ends of roof.

Don't apply aluminum over old roofs or shingles. Start roofing and siding away from prevailing wind, so wind can't get under the laps. Give sheets ample overlap.

Aluminum will corrode thru contact with fertilizers, alkalis (including wet concrete), livestock manure and urine, copper and ungalvanized steel.

Bad News for Weeds and insects!



GOOD NEWS FOR FARMERS!

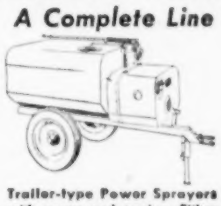
Weeds and insects are doomed on those farms where spraying equipment used is chosen from the new, modern, all-purpose Dobbins line. Booms include tractor-mounted models, complete with pump and fittings . . . booms for use with trailer and skid sprayers—all available in DeLuxe models featuring handy, adjustable nozzle spacing. When it comes to sprayers, regardless of type or size, choose from Dobbins complete line . . . skid models of various tank and pump capacities . . . trailer sprayers of 125 and 250 gallon tank sizes, with a pressure range from zero to 400 pounds . . . power take-off models and gasoline engine units, which can be drawn by tractor, jeep or truck . . . all made to deliver 7 gallons per minute and handle perfectly all spray solutions.

Write for free literature describing the many new Dobbins models—the products of careful research. Ask for name of nearest dealer. Do it today!

DOBBINS MANUFACTURING CO.
DEPARTMENT 356-D ELKHART, INDIANA

A COMPLETE LINE OF POWER AND HAND SPRAYERS AND HAND DUSTERS

Dobbins
SPRAYERS • BOOMS
A Complete Line



Trailer-type Power Sprayers with pump and engine. Either 125 or 250 gal. tanks.

Booms for trailer and skid sprayers. DeLuxe models with adjustable nozzle spacing.

Standard Spray Booms for trailer and skid sprayers.

Dobbins Superbilt SPRAYERS · DUSTERS

IT'S EASY WORK NOW!

WITH THE MIDWEST *Power Plus*

HYDRAULIC LOADER

FAST, POWERFUL LIFTING

Designed and built with Fewer Moving Parts

Easy to attach or detach. Hydraulic control stops and starts loader any distance from ground.

Such Features as

- Finger-tip Hydraulic Control
- Special Design Cylinders
- No Attachments Above Rear Axle Line
- Fast Mounting
- Positive Bucket Closing Device
- All Parts Electrically Welded

FITS ALL ROW CROP TYPE TRACTORS

Quick Interchangeable Attachments . . The Dozer Blade and Combination Hydraulic Hay Buck and Stacker.

"The loader of many uses"

Write for New, Colorful Folders

MAQUOKETA COMPANY MAQUOKETA 4, IOWA

"NO LONGER SLEEPLESS!"

Changing to Famous Cereal Drink Brings Natural Relief

Can't sleep? . . . Toss and turn?... Get up in the morning feeling more tired than when you went to bed? . . . Then you'll find real encouragement in this letter from a man in Peoria, Illinois:

"Nervousness and sleepless nights were my two reasons for switching to POSTUM—and you can tell the world that drinking POSTUM instead of coffee quieted my nerves and made me sleep better, thus improving my general health."

SCIENTIFIC FACTS: Both coffee and tea contain *caffein*—a drug—a nerves stimulant! So while many people can drink coffee or tea without ill-effect, others suffer nervousness, indigestion, sleepless nights. But POSTUM contains no caffein or other drug—nothing that can possibly cause nervousness, indigestion, sleeplessness!

MAKE THIS TEST: Buy INSTANT POSTUM today—drink POSTUM exclusively for 30 days. See if POSTUM doesn't help you, too, to sleep better, feel better, enjoy life more! . . . INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

Built for WEAR·COMFORT
Military Style COMBAT BOOTS
NOW ONLY 5.88
AFTER INVENTORY SALE!! REDUCED PRICES
Due to heavy inventory stocks on these 3 excellent shoes we have reduced prices temporarily—ORDER FROM THIS AD PLEASE. THESE SHOES ARE PRICED HIGHER IN OUR CIRCULAR
FIELD SHOES HEAVY STYLE 4.44
SIZES 6 TO 12
6 to 12
HEAVY STYLE • RUGGED AND COMFORTABLE • REVERSED UPPERS, FULL OAK LEATHER INNERSOLE WITH HARD WEARING COMPOSITION OUTER SOLE. SIZES 6 TO 12, D to EE. ADD 27¢ POSTAGE PLEASE.
OFFICERS STYLE OXFORDS 5.88
FOR WORK, OUTDOOR SPORTS, ETC. ABOUT 10" HIGH—STURDY REVERSED UPPERS, FULL OAK LEATHER INNERSOLE WITH EXTRA COMPOSITION OUTER SOLE. SIZE 6 TO 12, D to EE. ADD 27¢ POSTAGE PLEASE.
ORDER BY MAIL
PLEASE SEND REMITTANCE WITH ORDER. INCLUDE POSTAGE. GUARANTEED SATISFACTION OR YOUR MONEY BACK. ORDER TODAY.
• BROWN • BLACK
BLACK OR BROWN. BEST QUALITY UPPERS, SOLID OAK LEATHER SOLES, GOODYEAR WELT. WORTH CONSIDERABLY MORE THAN OUR LOW PRICE. SIZE 6 TO 12, D to E. ADD 30¢ POSTAGE PLEASE.
SIOUX FALLS SURPLUS STORE
SIOUX FALLS, S. D.

World's FASTEST, EASIEST-TO-USE Fence Tool
Does 6 Hrs. Work in 3
Golden Rod All-Purpose Fence Tool
Weighs 8 Lbs. Pulls ½ Ton!
SPLICING
HOOKS TO POST
HOOKS TO WIRE
Does more difficult fence work so much Easier, Better, Faster! Powerful, easy to operate. Mechanical "dogs" on strong hooks grip wire securely, hold wire away—prevent injury if wires break. Ideal for drawing both wire-ends taut for splicing. Pulls wires up or down. Handles all kinds of wire. Has many uses besides stretching and repairing fences. Built of finest materials. ORDER TODAY FROM YOUR DEALER $5.95
If he hasn't the genuine Golden Rod, send $5.95 and we'll ship direct, postpaid. Get yours now.
DUTTON-LAINSON CO.
Mfg. Div., Dept. 22-W, Hastings, Nebr.

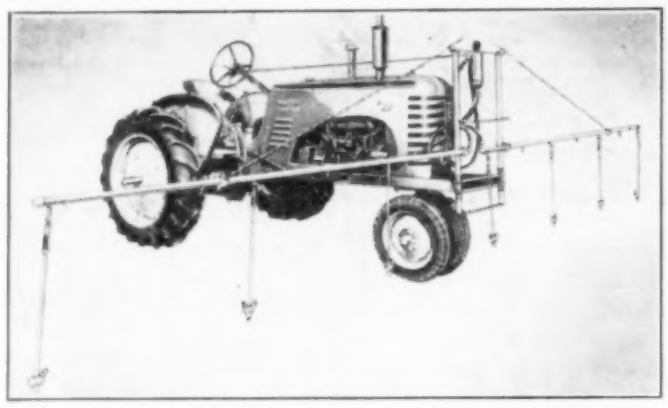
Dynamite Ditches

SAVE TIME—MONEY—WORK

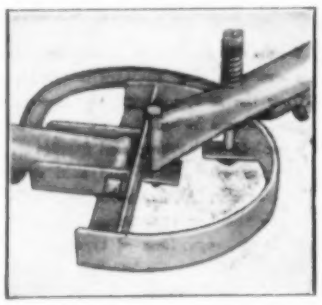
Drainage ditches and tile outlets can be opened in a few minutes. Write for free information and prices.

BOWEN'S SUPERIOR EXPLOSIVES CO.
P. O. Box 25 Mason City, Iowa

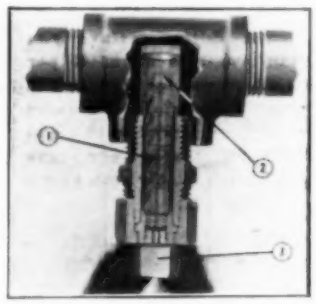
Sprayer Models FOR 1949



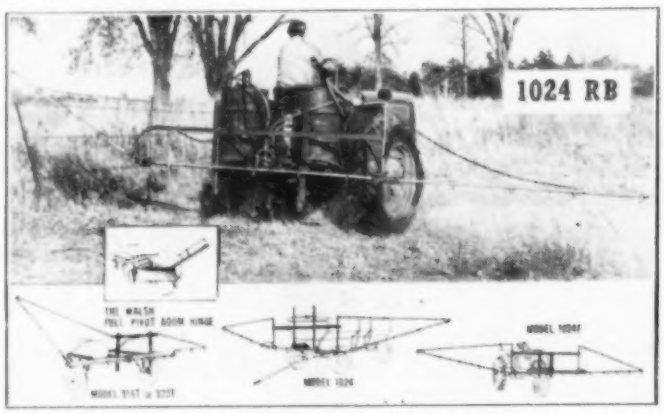
Front-Mounted sprayer is low-pressure, low-gallonage type, and is adapted to fit any type of tractor. Gear pump attaches to power take-off shaft. This is made by Massey-Harris. They also make a trailer model with the same features.



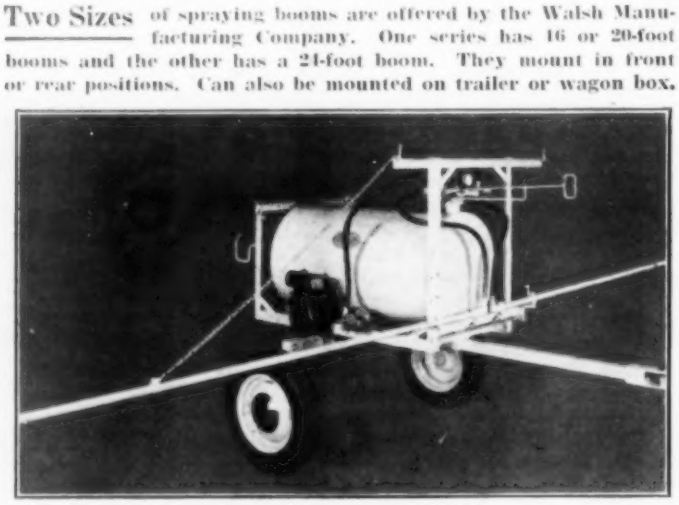
New Hinge allows sprayer boom to break up, backward and forward. Engineered to support itself in all positions. Farm gates, fences, land contours are easily managed with this boom hinge. The hinge is on sprayers made by the Belmer Mfg. Company.



Nozzle has three points for clog prevention: (1) Double sized screen; (2) screen is set deep in boom so it is constantly washed by flow of liquid, and (3) provision is made for easy alignment with boom. Fargo sprayer is manufactured by F. H. Peavy & Co.



Two Sizes of spraying booms are offered by the Walsh Manufacturing Company. One series has 16 or 20-foot booms and the other has a 24-foot boom. They mount in front or rear positions. Can also be mounted on trailer or wagon box.



Six Models of trailer-type sprayers are made by the O. W. Kromer Company. They make five models for tractor mounting. Boom sizes are 13 to 40 feet in length. The company features rust preventive treatment for tanks and booms.

Road Gear

For Old Model John Deere A or B
For Farmall F-20, F-30 and Regular Model

Behlen GEAR BOX

Go 9 and 15 m.p.h. on your old model John Deere A or B. Two separate, additional speeds. On Farmall F-20, F-30, or Regular Model, you can do 14 to 15 m.p.h.; or if you prefer, you can have 10 m.p.h. gear box for the F-20 or Regular Model. Installed with or without Lift-All Pump.

Bring your old tractor up to date. Do many more jobs in a day. Ideal for bucking hay, rotary hoes, long hauls, etc. Does not interfere with present gears.

Also Gear Box for Farmall H or M Adds Useful Middle Gear

Equip your H or M with this handy in-between speed of 10 m.p.h. Not too fast, not too slow for many field jobs. If you prefer, you can have 7 m.p.h. gear box. Quickly, easily installed.

Write today for full particulars. Be sure to name tractor you are interested in.

BEHLEN MANUFACTURING CO.
Dept. 802 Columbus, Nebr.

This Amazing Hand Tool Has Everybody Talking!

New VISE-GRIP WRENCH

And no wonder! You can search the world over and nowhere will you find a tool with the genuine usefulness of the New VISE-GRIP wrench. Does jobs impossible with any other tool.

- LOCKS with terrific grip.
- Adjusts to pliers action.
- Exclusive Involute Jaw Curve combined with Knurled Jaw Tips, Thin Nose and Wire Cutter makes this tool perform with real magic.

Fine alloy steel. Nickel plated finish.

WITH Cutter		WITHOUT Cutter	
No. 7W—7"	$2.25	No. 7C—7"	$1.95
No. 10W—10"	$2.50	No. 10C—10"	$2.25

If not at your dealers, order direct. Postage paid if price accompanies order.

PETERSEN MFG. CO., Dept. W-3, DeWitt, Nebr.

MIGHTY FAST Relief For
RHEUMATIC ACHES-PAINS

Sore, Stiff Muscles

When you're suffering from rheumatic, lumbago or neuritis pains—from stiff lame muscles—rub on Musterole for fast, long-lasting relief.

Musterole offers ALL the advantages of a warming, stimulating mustard plaster yet is so much easier to apply—just rub it on. Musterole *instantly* starts to relieve aching soreness and helps break up the painful surface congestion. In 3 strengths. At all drugstores.

MUSTEROLE

BUILD YOUR OWN HYDRAULIC LOADERS. Convert mechanical loaders and implements to hydraulic with Super-Draulic double and single action hoists and controls. Replacement hoists for other loaders. Free loader plans and information. Have loaders for John Deere, International. SUPER DRAULIC MFG. COMPANY., Fort Dodge, Iowa.

TRACTOR PARTS Guaranteed New. Used Tractor Parts. For most makes. Send catalog FREE. Write RELIABLE TRACTOR PARTS CO., Hastings 26, Nebraska, or Box 777, Sioux City, Iowa.

When writing to advertisers, will you please mention this paper.

"Twenty years ago, I built this CONCRETE ROAD—

and I'm proud to say it has *saved money ever since*"

"As an engineer I know what this road cost to build and maintain. Compared with so-called "low cost" roads, this stretch of durable concrete has *saved taxpayers money every year.*"

State highway records covering 215,000 miles show that concrete saves from 20% to 77% per mile per year in maintenance, compared with other surfaces. Considering first cost, upkeep and length of service, concrete roads cost less than any other type.

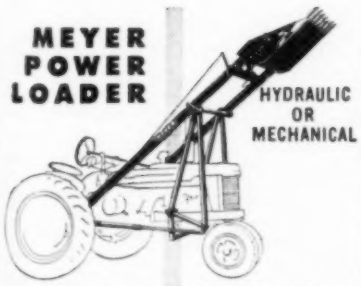
Urge your officials to pave with *low-annual-cost* concrete.

PORTLAND CEMENT ASSOCIATION

408 Hubbell Bldg., Des Moines 9, Iowa
33 W. Grand Ave., Chicago 10, Ill.

A national organization to improve and extend the uses of portland cement and concrete . . . through scientific research and engineering field work.

MEYER POWER LOADER



HYDRAULIC OR MECHANICAL

HEAVY DUTY — ALL PURPOSE

Choose the type you prefer—both are rugged, dependable, fine-performing . . . for digging, moving, lifting. Easily attached to any tractor. 1 ton capacity. Easily controlled from seat. 6' dozer blade interchangeable with scoop. *Write for facts* — send for free circular describing both farm-tested Meyer Loaders.

THE MEYER MFG. CO., Box 565 Morton, Ill.

Makers of famous MEYER ELEVATORS

NEW! D.C. ARC WELDER

200 AMPERES

ONLY $97.50

Money back 10-day trial period

Easily mounted on your tractor. Six months' guarantee. Welding range, 0-250 amperes by dial type control. Price includes proper pulley for your application. Write today.

LEJAY MFG. CO.
718 LeJay Bldg. Minneapolis 8, Minn.

OUTSIDE STUFF

FARMERS seem to like the idea of using multiflora rose for a living fence. Big trouble is the scarcity of seedlings. One fellow showed me a stack of 10 letters from nurserymen who were out of plants.

• • •

THE plant is highly recommended by the Soil Conservation Service. Hunters, too, like to think of the cover it offers for game.

• • •

TWO men, one in Guthrie and one in Madison county, Iowa, expressed almost identical ideas in the same words when I visited their farms.

• • •

WE WERE talking about pasture improvement. Jay Steele, in Madison, had explained that, where the land was fit, a year of corn every six years helped break up sod for reseeding.

• • •

HE POINTED to a 10-acre field where he had harvested 1,550 bushels of corn. "Right there, I got three normal crops of corn, so one year in six is going to average out all right," he said.

• • •

THE Guthrie county man, W. C. Grow, had a yield contest record of 165.8 bushels on a similar field. He almost used Steele's words to point out that if one year of corn in six gives as much as three ordinary years of corn on a similar soil, the long rotation is better.

• • •

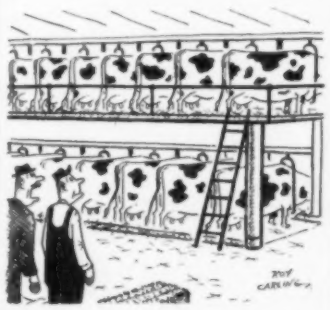
IT MAY involve some shifts in livestock practices to make use of the extra roughage. Even if you keep on growing as much corn, hogs can't eat hay and pasture like cattle or sheep.

• • •

NO MATTER how hard I work on the details, seems like I always fail to give full credit on the write-ups of Master Farmers. For example, I was at Maynard Menefee's just before the DHIA averages for 1948 were out. So I wrote that his herd averaged 355 pounds of fat; now the new DHIA average is 430 pounds of fat, with two cows well over 500 pounds.

• • •

BY THE way, if you want a nomination blank for a 1949 Iowa Master Farmer candidate, send us a card. It's time to start on nominations for next year. — W. D. Inman.



"I figured it would be cheaper than building a new addition."

As Long Ago As Last Summer We Began To Talk To You Subscribers About...

CORN CRIBS

IN PREPARATION FOR A FURTHER

PRICE DROP

WE RECOMMENDED more crib space in the issue of August 21, 1948 . . . so that you could seal your corn at the loan rate instead of selling it at a low price.

WE HAVE BEEN telling you this ever since . . . in just about every issue of Wallaces' Farmer and Iowa Homestead. . . . We'll keeping telling the latest news on this subject and others too, that will benefit you.

WHY DO LEGUME STANDS FAIL? You will find the answer to this question and several others on page 5 of this issue. Study the methods of production described on this page . . . you may be able to increase the yield of your clover and alfalfa stands. Your oat production may increase too.

HOW MANY TIMES HAVE YOU MOVED? The story on page 38 may give you the feelings connected with pulling up family roots and going some place else to grow.

WE MIGHT HAVE HELPED YOU! The Service Bureau has helped a lot of you subscribers. . . . We'll help a lot more during the next year or so. Letters on every problem you can think about . . . and just about everything of interest to farm families, have been answered. . . . Page 31 gives the answers to problems that may be yours too.

Wallaces' Farmer & Iowa Homestead
Des Moines, Iowa

SAVE UP TO $16 a Ton

BROWER Whirlwind FEED MIXER

Easy to use. 3 sizes . . . mixes 700 to 3000 lb. batches in 10 minutes. All steel, lasts for years. Over 8000 in use. WRITE for catalog today.

EASY TERMS

BROWER MFG. CO., Box 8382, Quincy, Ill.

OTTAWA POST HOLE DIGGERS

(THERE IS NO OTHER LIKE IT!)

Prices from $99.50 up. The digger you have been waiting for. Quick hitch to any tractor with power take-off. Fastest power auger return. Heavy hi-speed two flight auger. Safety clutch prevents damage, eliminates shear pins. Strictly one-man machine. Write today for digger facts, new low prices.

Patents Pending

OTTAWA MFG. CO., 5-907 Elm St., Ottawa, Kans.

THE BEST SEAT ON THE FARM IS A FLOW-TING hydraulic TRACTOR SEAT

You can actually relax and work from sun-up to sun-down without over-fatigue or strain on a FLOW-TING Hydraulic Tractor Seat. Patented weight adjustment feature gives the same easy ride to man or boy regardless of size. The airplane shock absorber principle eliminates those backbreaking jars and jolts—even in the roughest field. Quickly installed on most tractors. Write for literature and name of nearby dealer.

KNOEDLER SAY "NEEDLER"

KNOEDLER MANUFACTURERS, INC.
DEPT. K-3 STREATOR, ILLINOIS U.S.A.

Good NEWS for Farmers

The OTTAWA 'C' SHELLER is Available Again

- 600 to 1,200 bushel hourly capacity
- Less power to operate
- Shells corn in any condition

The Ottawa Line is nationally known for its tremendous capacity and economy of operation. The Ottawa "C" sheller is ruggedly built and simply constructed—engineered for long years of hard usage. Guaranteed to shell toughest corn clean, whether snapped or husked—dry, wet or soft. Ottawa "C" shellers are exceptionally compact—more adaptable than any other corn sheller for mounting on truck frames. Models on automotive running gear also available. For further information consult your Ottawa Dealer or write direct to us.

MAKERS OF PORTABLE AND CUP ELEVATORS . . . SPEED JACKS AND WAGON HOISTS
Deliveries 30 to 90 days

The "OTTAWA" Line KING-HAMILTON COMPANY
315 W. MARQUETTE OTTAWA, ILLINOIS

DU PONT

AGRICULTURAL CHEMICALS AND INSECTICIDES

2,4-D Ester 2,4-D Powder 2,4-D Amine
Ammate DDT

COLORADO .44 CHLORDANE

See your local dealer or write us direct for complete information on your pest control problems.

CARL W. NIDY AND COMPANY
DISTRIBUTORS
319 Fourth Street Des Moines, Iowa

GET INTO BUSINESS ... for Yourself

Yes, a good, steady, lifetime business. Owners making $50 a day and more. Much of it profit, grinding feed for local farmers.

GEHL Direct-Drive PORTABLE FEED MILLS

pay for themselves out of profits. Terms to responsible parties. Two models . . . powered by special motor, Diesel or gasoline (illustrated) or by truck motor. Gehl is famous for fine construction, big capacity, economy. Write for free booklet and complete details.

GEHL BROS. MFG. CO.
Dept. PC-162, West Bend, Wis.

GEHL

RURAL MAIL BOX NAMEPLATE

YOUR NAME, made with 1-inch, raised, blacktare, ALUMINUM letters. Complete with bolts, nuts and brackets for mounting on top, side or bottom, as shown. Lasts a lifetime. Descriptive literature free. Satisfaction guaranteed or your money refunded.

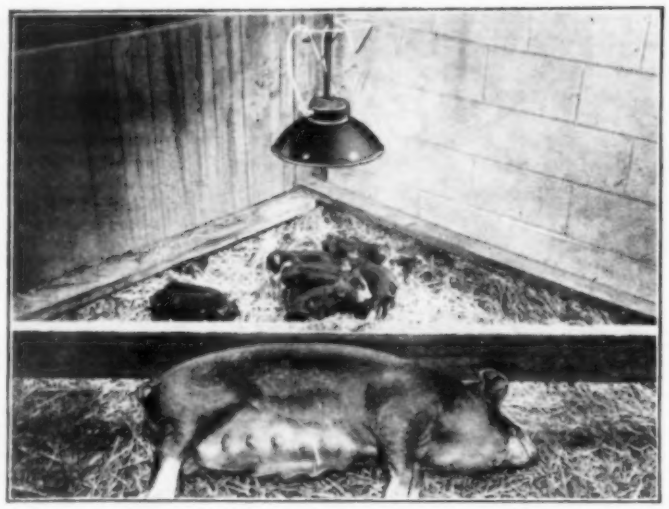
Single Nameplate, prepaid $1.00
Double Nameplate, prepaid $1.75

Adjustable Sign Co., Box BW-1, Askov, Minn.

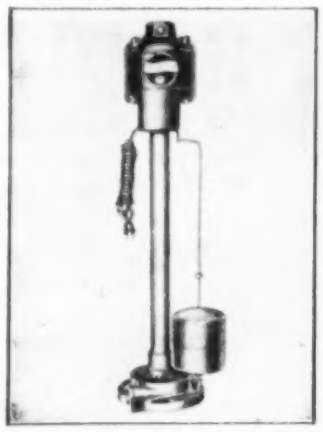
HEADQUARTERS FOR **TRACTOR PARTS**
MOST ALL MAKES
Send for Free 76-Page 1949 Catalogue.
ACME TRACTOR SALVAGE COMPANY
LINCOLN, NEBRASKA

Buy a Bond Today!

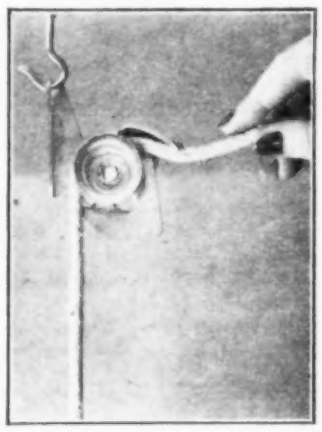
What's New?



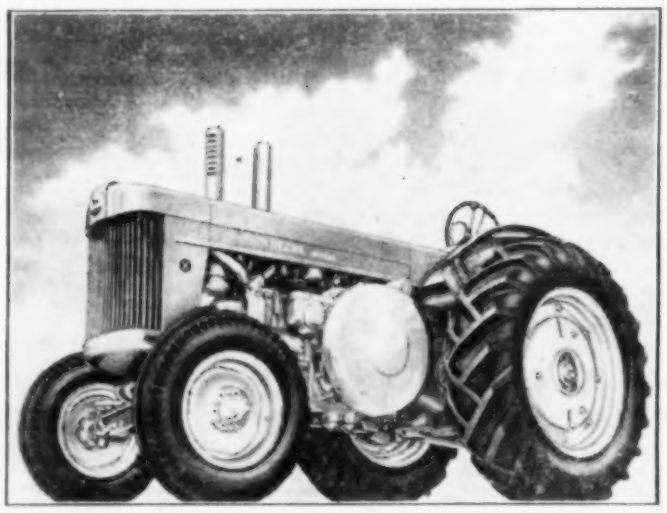
New Heater for pigs or chicks has no light bulb to break. Heavy duty lava-coated generator gives off both heat and infra-red rays. Is suitable for chicks where the use of a hover is impractical. Can also be used for other heating jobs around the home. No special installations are required, as the heater hangs from the ceiling and the height from floor is easily adjusted. Manufactured by the Dry Clime Lamp Corporation.



Sump Pump will prevent flooded basements, or accumulation of water at any inconvenient place. Starts automatically. Centrifugal type pump throws 20 gallons per minute with 18-foot head or 51 gallons with 5-foot head. Made by the Lancaster Pump and Manufacturing Co.



Clotheslines are fastened and tightened with this simple unit. You need only to pull down on the rope to tighten. Pull down also to release the grip. Only one unit required for a line. The heavier the clothes, the tighter the unit holds. Quick-Tite is manufactured by Hall Industries, Inc.



New Tractor is designed for large acreage farmers. It has a diesel motor, and an auxiliary two-cylinder motor for starting the big motor. Pulls four or five bottoms. Has a speed range of from two miles per hour to 11½ miles for transporting. Is equipped with hydraulic Powr-Trol for easy operation of heavy implements. Power shaft and Powr-Trol are operated by independent clutch. Made by John Deere.

MOON SIGN BOOK

A PLANETARY DAILY GUIDE FOR YOU

This valuable publication is prepared annually by LLEWELLYN GEORGE, well known author and lecturer.

It has been published every year since 1906, and is filled with practical, helpful information for daily use by every one.

Thousands use the "Moon Sign Book" successfully because it gives best dates for Farming, Gardening, Planting, Fishing, Poultry Raising, Business and Personal Affairs, etc., according to the correct Moon Sign.

Why do successful farmers plant potatoes in the dark of the Moon?
Why do florists plant seeds in the 2nd quarter and a certain Moon sign?
When to plant wheat, corn or any other seeds for best results?
When to transplant, prune, graft, destroy weeds, cut timber, set posts, etc.?
What are the best dates for setting eggs, hatching, breeding, fishing?
Why should you plant flowers in Libra on a certain date and Moon's phase?
When are the best times to buy, sell, collect, rent, travel, move, or build?
What are your most favorable and important days of the year? To marry?
When to get a permanent wave or hair cut, employment, etc.?

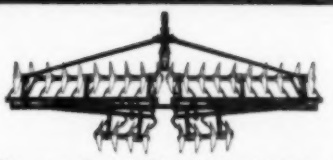
These and **many other questions** are explained in a simple, non-technical, yet scientific and practical manner, to help you work in harmony with Nature for good results. Buy it, Try it, Use it.

This popular book enjoys increasing sales each year and is sold on the publisher's unconditioned guarantee, **money back if not satisfied.** 256 pages.

Price $1.10 in the U. S. A.

LLEWELLYN PUBLISHING CO.
6921 I.H. National Blvd. Los Angeles 34, Calif.

DISCMASTER Gives You Cleaner, Deeper Discing



The new Curtis Discmaster is designed for modern speed farming. Saves labor, saves time. Easy to set up; scrapers are mounted and in position. Simply attach the tongue and braces, and your Curtis Discmaster is ready for cleaner, deeper discing. Specially built adjustable scrapers keep blade clean. Folding wings are easily removed. Easy to angle or straighten gangs. Made in 12', 15', 18', and 21' widths. Write for prices, illustrated literature and name of your nearest dealer. (Dealers: A few choice territories still open.)

CURTIS MFG. CO., Dept. WF-1 Denison, Iowa

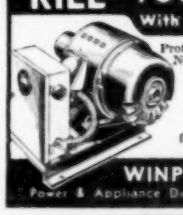
WAKE UP YOUR LIVER BILE—

Without Calomel—And You'll Jump Out of Bed in the Morning Rarin' to Go

The liver should pour out about 2 pints of bile juice into your bowels every day. If this bile is not flowing freely, your food may not digest. It may just decay in the bowels. Then gas bloats up your stomach. You get constipated. You feel sour, sunk and the world looks punk.

It takes those mild, gentle Carter's Little Liver Pills to get these 2 pints of bile flowing freely to make you feel "up and up." Get a package today. Effective in making bile flow freely. Ask for Carter's Little Liver Pills, 33¢ at any drugstore.

KILL POWER FAILURES With YOUR OWN TRACTOR



Protect your farm or business NOW with a low-cost, stand-by generator that operates from tractor belt or gas engine. Why wait until your lights go out—stoker, refrigerator and radio stops . . . then it's too late! Write today for complete details.

WINPOWER MFG. CO.
Power & Appliance Div. NEWTON, IOWA

HIGHEST QUALITY DOMESTIC
ALFALFA
99¼ PURE 90% or OVER GERMINATION $26.25 BU.

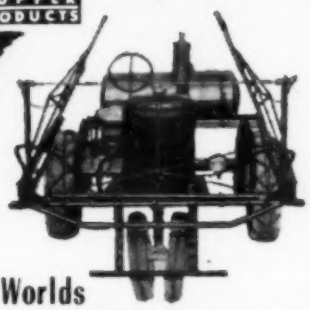
Also Hardy GRIMM $27.60. Many other Alfalfas, Cossack, Hardistan, etc. Mountain Brome Grass $4.20. Scores of other clovers, grasses, legumes and seed grains. All seeds thoroughly cleaned. GUARANTEED SATISFACTORY. Free Samples and Catalog. Write today. Lowest prices to early buyers. Big Savings NOW. "Where you can buy the best for less."

BERRY SEED CO., Box 3304 CLARINDA, IOWA

here's why

K-SPRAY

KUPFER PRODUCTS



Is Worlds Largest Selling Sprayer

LOW PRICE, with economy models from $119.50 and up. ALL STEEL STRENGTH, electrically welded with 3 section, rust-proofed booms, individually controlled. Simple design for easy operation, installation. Extra safety, economy, precision. New HYDRO-MASTER PUMP, first self priming, power takeoff, all-in-one pump unit designed for farm use. 8-16 gal. per min. delivery. SURE filtering with replaceable milk filter disks. Lifetime lubricated, ball bearing, 100% bronze and monel metal pump, no rubber. All parts replaceable. All models available with or without high clearance, adjustable wheel tread, tank trailer unit, hand spray, other accessories. DEPENDABLE company, since 1885 to 1949 a leader for quality. Every unit guaranteed. 4 big modern plants assure you precision engineering, mass production, more for your money. K-Spray will be first again in 1949.

K-Spray models from $119.50 up F. O. B.

The NEW Farm Spray Pump

Hydro-Master pumps, K-Spray fan or cone Nozzles, Nozzle Extensions, Corn Bore Nozzle adapters are available separately to modernize other standard equipment.

KUPFER PRODUCTS, INC.
MADISON, WISCONSIN

Your Dealer's Name on Request

STATE DISTRIBUTORS
E. C. Gerdes & Co.
Burlington, Iowa
—Choice Dealerships Available—
Write For Information

The BEAR CAT
COMBINATION
Grain and Roughage Mill also Ensilage Cutter

NEW Adjustable Drop-Apron FEEDER

Model 2A-DFI

Grinds any feed—green, wet or dry, shapped or ear corn, roughage bundles or bale flakes and no monkey business. It really grinds, and with ordinary farm tractor. Has both cutter head and heavy swing hammers. Adjustable Drop-Apron Feeder works in any position from ground to truck bed height. Get full information on this real honest-to-goodness Bear-Cat Grinder. Four sizes. Write—
Western Land Roller Company, Bx. 176, Hastings, Nebr.

CRIB PLANS FREE!

Send for FREE crib blueprints with list materials. Also Elevator catalog - shows 8 styles.

MEYER FARM ELEVATORS
CUP AND PORTABLE

Simplest, strongest — no short turns. Widest, sturdiest PORTABLE — handles tailed hay. Write us your crib problems today. State whether interested in BUCKET or PORTABLE. Postal brings FREE catalog. THE MEYER MFG. CO., Box 1265, MORTON, ILLINOIS.

TIGER RUBBER Husking rolls

For most makes corn pickers
PICKS CORN CLEANER!
LASTS LONGER!
TOUGHER!
Also makers of COOK SHUCKER for model "P" Case and general implement corn pickers. WRITE TODAY.
COLUMBUS STEEL FAB. CO.
Dept. WF-7 Columbus, Nebraska

Buy Bonds Now

Price Drop Not Like 1920

The bloom definitely is off the war-time boom, says Iowa State College Economist Francis Kutish—but the Iowa farm outlook still is better than it was after World War I.

FARM prices, Kutish says, have been higher than we could explain by past periods of full employment. At least a part of the recent farm price weaknesses seem caused by prices getting back toward more normal relationships.

Also, crops were good last year. This took a lot of the pressure off. A readjustment was bound to come.

But such a readjustment in farm prices, Kutish explains, is far different from a general slowing in economic activity. Apparently, farm prices are getting more in line with 1926 and 1941-42—years of full employment not unduly influenced by war-time shortages.

Even tho no bust is in sight, profit margins are going to be narrower. So Kutish maintains we'll have to pay more attention to holding down costs.

Here's how the ISC economist sizes up farm price prospects:

HOG slaughter during the six months beginning in about April will show a sharp gain over last year. The fall pig crop was up. And around 10 per cent more packing sows will roll to market this summer. With plenty of feed, it probably will pay to push hogs for an early market. That means feeding balanced rations.

OIL-SEED meal prices are lower than a couple of months ago. This puts further emphasis on "generous" feeding to take advantage of favorable livestock feeding relationships. Corn may be the cheapest feed on your farm, but it still pays to balance it with proper amounts of protein feeds.

POULTRY should net more profit during the first half of the year than a year ago. But more chicks this spring will mean a big boost in egg supplies next fall—with weaker prices. This is not the time to go overboard in expanding your poultry flock.

TURKEY growers should guard against going "whole hog" in expanding. The urge will be great because profits were good last year. But turkey prices probably will be sharply lower next fall as more birds go to market.

SHEEP numbers have shrunk to the lowest level on record. And the 1949 lamb crop probably will drop another two million head below 1948. The reason: Fewer breeding ewes on hand and fewer lambs saved because of the severe winter on the range.

FED CATTLE will be plentiful this spring — and an unusually large share of them will be well-finished natives. A lot more cattle will grade "low good" than a year ago. Demand for stocker cattle to go on grass is strong this spring.

DAIRY COW numbers on January 1 were the lowest since 1931. Numbers dropped in 1948 for the fourth year in a row. Dairymen had 2 per cent fewer cows and 2 per cent fewer yearling heifers on hand at the start of the year—but 2 per cent more calves.

REPAIR ROOFS NOW! BEFORE WIND HITS

Windstorm danger season is here—and a building with a faulty roof is "wide open" to damage or destruction. So check up on your roofs today. Make repairs this week—and prevent damage. A few hours' work now may save you weeks of time and trouble later . . .

- **USE QUALITY SHINGLES;** heavyweight composition or A-1 cedar. Or, on metal roofs, use heavy gauge steel. Buy from a reliable dealer.
- **AVOID SKIMPING**—use plenty of shingles. Asphalt shingles with 4-inch exposure resist damage up to three times as long as those with 5-inch exposure.
- **USE PLENTY OF LONG NAILS.** For instance, a 36-inch strip of asphalt shingles should be fastened with at least 6 nails. For added protection, cement or clip each tab.
- **GET THE JOB DONE RIGHT.** Hire a qualified applicator. Or, if you do the job yourself, follow directions carefully.
- **REMEMBER:** Good materials and workmanship are cheaper in the long run.

Get your copy of free booklet, containing dozens of tips to help you prevent wind damage. Ask your County Mutual agent, or write . . .

IOWA MUTUAL TORNADO INSURANCE ASSOCIATION
HUBBELL BUILDING DES MOINES
Insurance in Force Over $1,100,000,000.00

SOUTHWEST

IOWA SHORTHORN BREEDERS

SHOW—9:00 A. M. SALE—12:30 P. M.

Judge: Homer Clausen, Spencer, Iowa

In Comfortable Sale Pavilion

RED OAK, IOWA, MONDAY, APRIL 4th

72 HEAD — 43 Good Bulls, 29 Well Bred Females

SHORTHORNS and POLLED SHORTHORNS

This is a long-established Association, which has improved the quality of the cattle, offered each year and this time, it is by far the best offering in quality and breeding ever presented at **Red Oak** and it is the largest number ever sold. The bulls are most all ready for service and afford a wide selection, herd bulls for good herds or a bull for most any need. The females include cows with calves and rebred, choice bred heifers and attractive open heifers. Good type, rich pedigrees and the quality will please. The consignors are:

McCone Bros., Botna
Lomas Farms, Villisca
Ray Saunders, Manilla
Otis Westphal, Corning
Frank Kennedy, Nodaway
Phil Funke, Greenfield
Tip Lucas, Lenox
Daniel Bowers & Sons, Bridgewater
Auracher & Neihaus, McClelland
Swanson & Sederberg, Hepburn
J. N. & J. L. Johnson, Sidney
Edmund O. Herzberg, Clarinda
Glen Windom, Lenox
Johnson & Graves, Council Bluffs
Malmberg Bros., Villisca
Lisle Farquhar, Coin
O. W. Johnson
Lloyd Davis, Oakland
Gillman Bros., Stuart
LeRoy Brown, Lamoni
Lou Eckles, Lenox
E. P. Laughlin, Imogene
Earl Phillips, Red Oak
S. H. Kline, Clarinda
C. O. Nelson, Creston
James Peterson, Exira
Purdy Bros., Fontanelle
Richard Green, Orient
Fred Hollrah, Denison
Harold Houston, Dow City
Dick Hyde, Hastings
LeRoy Brown, Corning
Edgar Hillman, Essex
Ralph Huseman, Clarinda
Arlon Christenson, Kirkman

This will be one of the opportunities of the season to make profitable and admirable selections from reliable herds where they have always made a profit out of the production of good cattle. A health certificate will be furnished with each animal selling. Make plans to attend. Ask for the **FREE** illustrated catalog. Kindly mention this publication. Address

ROY A. GILMAN, Sale Mgr., STUART, IOWA

Auctioneer, J. E. Halsey M. T. White, Fieldman

Ray Saunders, Pres. Phil Kennedy, Vice Pres. Malcolm D. Lomas, Secy.

JUNIOR JUDGING CONTEST: Conducted in conjunction with the show and County 4-H. Future Farmer Chapter may be represented by a team of 5, and compete for prize money of $15, $10 and $5.00. Other prizes awarded to high individuals.

Advertisement

From where I sit ... *by* Joe Marsh

Dutch Miller's Back In Uniform

After ten days in the city, Dutch is back in uniform. I don't mean Army khaki or Navy blue—but a different uniform, that's every bit as patriotic and American.

Blue jeans and a denim shirt, for work around the yards and barns; stout boots for tramping through the fields; and a straw hat when the sun gets high—a uniform you see from Maine to Texas, Iowa to Alabama.

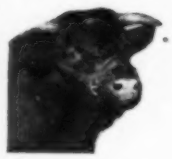
It's the uniform of an army—the great army of American farmers who, by their productivity, help to keep this nation strong—bolstering the forces of democracy that guard our freedom.

And in their way of life, too, they are champions of freedom. *Temperate* folk who enjoy a moderate glass of beer—but never quarrel with those who prefer cider. *Tolerant* people who fight to the bitter end against oppression and intolerance. From where I sit, a credit to America!

Joe Marsh

Copyright, 1948, United States Brewers Foundation

SHORTHORN SALE



Sponsored by Sioux Empire Shorthorn Club, Inc.

At Fair Grounds

SIOUX FALLS, S. DAKOTA
TUESDAY, MARCH 29

SHOW—9:00 A. M. SALE—12:30 P. M.

35 TOP BREEDING BULLS — 32 BRED AND OPEN HEIFERS

An outstanding consignment from the following good herds in IOWA, NEBRASKA, MINNESOTA, and SOUTH DAKOTA:

Curtis Alberty, Sioux Falls, S. D.
Henry S. Barron, Elkton, S. D.
Melvin Camery, Worthington, Minn.
Clausen Bros., Spencer, Iowa
Willis Dawson, Sioux Falls, S. D.
Dewar Bros., Cherokee, Iowa
S. A. Donahoe, Sioux Falls, S. D.
Art T. Duncan, Egan, S. D.
R. J. Eggers, Roca, Nebr.
Chas. Ewald & Son, Waldorf, Minn.
John D. Glanzer, Bridgewater, S. D.
Otto T. Hansen & Son, Walnut Grove, Minn.
H. Russell Held, Hinton, Iowa
Ralph Hellinga, Harris, Iowa
Kelsey & Sons, Fedora, S. D.
Abel Klinghagen, Davis, S. D.
H. A. Kraft, Correll, Minn.
Fred Lee, Britton, S. D.
Winn McCune, Luverne, Minn.
Charles Menage, Rock Rapids, Iowa
Theo W. Nickel, Mountain Lake, Minn.
Carl Retzlaff, Walton, Nebr.
Lowell Runkle, Everly, Iowa
Ralph J. Scheafer, Colton, S. D.
M. W. Smith, Paullina, Iowa
Walter H. Stein, Estelline, S. D.
Ben G. Studer, Wesley, S. D.
Otto Thiede & Sons, Burton, Nebr.
Thos. Vint, Rock Rapids, Iowa

Bulls that will fill the needs for the farmer, breeder, and ranchman. Females that will strengthen any herd. All cattle T. B. and Bangs tested. Good cattle, well bred, that will make a quick return for their new owners. Plan now to attend this outstanding show and sale. Kindly mention this paper when writing for **FREE** catalog.

AL HALVERSON, Sales Mgr., Box 841, SIOUX FALLS, S. D.

J. E. Halsey, Auctioneer Maurice Boney, Fieldman

"Standard Over 50 Years"

Kidman's Mineralized Yeast

Use KIDMAN'S MINERALIZED YEAST for culturing, or feed it dry with your own grains because it aids digestion, provides needed minerals and vitamins B and D—all essential for the fast economical gains and the sound thrifty stock which mean more profit for you.

SALES REPRESENTATIVES WANTED
Call or Write

STANDARD STOCK POWDER CO. Dept. W-9 DES MOINES, IOWA

2d Annual Mower County

GUERNSEY BREEDERS SALE

Mower County Fair Grounds

AUSTIN, MINNESOTA, SATURDAY, MARCH 26th

55 REGISTERED GUERNSEYS
10 COWS — 8 HEIFERS JUST FRESH WITH FIRST CALF
10 BRED HEIFERS — 11 OPEN HEIFERS — 6 BULLS

The bulls are from National and State winners. An exceptionally fine selection, consigned from such herds as **SPRUCE SHADOWS, BOULDER BRIDGE, WINDY HILL, BRANDLJEN FARM, MAKPE LEAF, GREEN NEEDLES FARM, SANFADAIR FARM, HANKS BROS., WECCO ACRES, ALCHRIST FARM, ROLLING ACRES** and many other Mower County Herds. A real opportunity to start a herd or purchase outstanding Club calves. **COME.** Ask for **FREE** catalog. Kindly mention this publication. Address

CARL E. KEHRET
Austin, Minnesota

C. IRVING FREEMAN
Dexter, Minnesota

If You Need a Good Boar....

Farmers who need a good boar or gilt or first class individuals of either sex in draft horses, beef or dairy breeds will find the leading breeders listed in these pages and offering surplus stock. Make our columns your guide when buying.

If you do not find in Wallaces' Farmer and Iowa Homestead what you want to buy, advise us and we will gladly give you names of reliable firms that can take care of your needs.

Address Live Stock Advertising Department

Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa

—PUT SOME OF THAT EXTRA CASH INTO SAVINGS BONDS—

HARDPAN PETE

Maybe You Should Mow 'Em Oftener

BELL VIEW HEREFORD FARM

MISS BELL'S STANWAY 28th. A sample of our fine heifers. Sells bred September 7th to WHR Resolute 55th. Many like her.

Sale in Comfortable Sale Pavilion

BLOOMFIELD, IOWA

MONDAY

APRIL 4, 1949

67 HEAD

19 GOOD BULLS, 48 WELL BRED FEMALES

A splendid offering of well-bred cattle. The 19 bulls most all ready for service. Most all sired by **BELL'S RUPERT K. 2d**, a son of Royal Rupert K. You can find a herd bull here—a bull for most any demand. The females include 7 cows, 3 have calves at foot, others well forward in calf. There are 41 choice 2-year-old heifers, a few by **WHR ROYAL TRIUMPH**, others mostly by **BELL'S RUPERT K. 2d**, a son of Royal Rupert K. Real prospects and sell mated to the outstanding great herd sire, **WHR RESOLUTE 55th**. He is truly a great sire. See the choice calves sired by him below. You will want some good females mated to him. All cattle **T.B.** and **Bangs** tested—can go anywhere. Plan to attend. Ask now for **FREE** illustrated catalog. Kindly mention this publication. Address

CLIFFORD BELL, JR., PULASKI, IOWA

Auctioneer, Fred Chandler — Maurice W. Boney, Fieldman

Some of the calves by **WHR RESOLUTE 55th**. Note good heads. Excellent style and real quality.

ILLINOIS

Polled Hereford Association

SHOW AND SALE

State Fair Grounds

SPRINGFIELD, ILLINOIS
SATURDAY, APRIL 2nd

Starting promptly at 11:00 A. M.

+ 120 HEAD +

60 CHOICE BULLS — 60 DESIRABLE FEMALES

This is the best display of **POLLED HEREFORDS** ever offered by our State Association. Selected from **50** of the leading herds, representing the most popular blood lines. The large number affords a wide selection in herd bull prospects and farmer bulls. Females of all ages, cows with calves, bred cows and heifers and open heifers. The place to make profitable selections. **COME.** Ask now for **FREE** catalog. Kindly mention this publication. Address

ERNEST PAINTER, Secy., LA HARPE, ILLINOIS

Auctioneer, Guy Pettit — Judge, J. C. Holbert

LIVESTOCK NEWS

The Iowa State Aberdeen Angus Breeders Association show and sale, at Des Moines, Iowa, March 8 and 9, registered a real comeback. Garold L. Parks, secretary, deserves much credit for his hard work and faithful efforts. Cattlemen were present from many states, covering a wide section. The awards were ably made by Robert Green, Oaktown, Ind., and B. A. Rucker., Jr., Charlottesville, Va. The champion bull in the open class was Eric Zaromar, from the Fleck & Vander Werff herd, Sully, Iowa, and sold for $1,250 to F. L. & C. N. Senter, Nevada, Iowa. The reserve champion of the open class was Eric's Blackcap Heir E. L. 2d, shown by Earl F. Lohr, Earlham, Iowa, and sold for $1,100 to J. K. Rodgers & Son, Hamilton, Iowa. The futurity champion bull was Eric's Blue Boy E. L., owned by Earl F. Lohr, and sold for $925 to Robt. E. Sanders, Lineville, Iowa. The reserve champion futurity bull topped the bull sale. He was Bandolier M. E. 2d, from the M. E. Rhodes & Son farm, at Scranton, Iowa, and went at $1,575 to Fred Husahak, Clutier, Iowa. Blackcap Bardolier B., from El-Jon Farm, Rose Hill, Iowa, sold for $1,185 to Z. R. Spaur, Pleasantville, Iowa. Revelation B. A. S., owned by Bell & Sons, Osceola, Iowa, sold for $1,075 to Mallory & Mallory, Hampton, Iowa. Eston of Glencarnock, shown by Harold E. Eiler, Tipton, Iowa, sold for $1,050 to Leroy James, Watertown, Wis. Bandolier 244th of Wilton, from the Otto G. Nobis herd, sold for $1,020 to John Williams, Odebolt, Iowa. The champion female in the open class was Elga Erica Baress 2d, from the Hopley Farms, Atlantic, Iowa, and sold for $1,000 to Silver Top Farms, Belton, Mo. Reserve champion was Queen of ElO, owned by Wallace & Sons, Churdan, Iowa, and sold for $550 to Bell & Son, Osceola, Iowa. Blackcap Bessie 47th, owned by Mallory & Mallory, Hampton, Iowa, sold on order for $1,175 to Myron Fuerst, Pine Plains, N. Y. The futurity champion was Blackbird Lassie of Galva 21st, from Enoch & Bob Johnson, Galva, Iowa, and topped the sale at $2,100, going to Walter Ferguson, Cheyenne, Wyo. The reserve futurity was Zara of Walnut 6th, shown by P. K. Pratt, Walnut, Iowa. She was the favorite of many, and sold for $1,425, to Johnson Bros., Ida Grove, Iowa. Bessie Queen of Walnut, another Pratt entry, sold for $1,025 to Layton Angus Farm, Walnut, Iowa. Queen Ann L. 9th, from the Lazear Farm, Chariton, Iowa, sold for $1,250 to Robt. Green, Oaktown, Ind. Cattle went to buyers in 10 states, with Iowa buyers taking 121 lots. They were distributed as follows: Iowa 121, Wisconsin 2, Wyoming 9, Nebraska 6, Minnesota 4, Missouri 2, Indiana 1, Oklahoma 1, Arkansas 1 and New York 1. The 63 bulls averaged $587.50, with 85 females at $400 each, and the 148 lots sold for $70,990, a general average of $479.60 each. Auctioneers Johnston and Sims.

The seventh annual Angus sale of Penney & James, Hamilton, Mo., March 1, brought out a large crowd from all sections of the United States. The top of the sale was the bull, Homeplace Elleenmere 8th, a son of Elleenmere 487th, and sold for $7,350 to Edward E. Parsan, of Fayette, Idaho. The top female was Homeplace Burgess 4th, a daughter of Elleenmere 487th, and bred to Elleenmere 999th. She sold for $4,500 to John Warin, of Marycrest Farm, Maloy, Iowa. Homeplace Bumburgess sold for $2,500 to A. W. Lambert, Yuma, Colo. Homeplace Ida went to Oakridge Farm, Columbia, Mo., at $2,550. Homeplace Queen Mother 8th sold for $2,550 to Oakridge Farm. Blackbird Lady 180th sold for $2,000 to Woodbar Farm, Rockton, Ill. The nine bulls sired by Elleenmere 487th averaged $2,283 each; 17 daughters averaged $1,695; 12 bred to him averaged $1,354, and 38 head of his get or carrying his service averaged $1,727. The entire lot of 11 bulls averaged $1,977, with 49 females at $1,243 each and 60 lots at a general average of $1,378. The cattle went to buyers in 11 states, distributed as follows: Iowa 8, Missouri 17, California 14, Illinois 7, Kansas 4, Colorado 3, Ohio 2, Nebraska 2, Oklahoma 1, Wyoming 1 and Idaho 1.

FOR SALE

Disk Hillers for HM238 corn cultivators. Fertilizer Attachments or Side Dressers for HM238 Cultivators. Four row McCormick-Deering corn cultivators for M or MD. Weeder Mulcher attachments to fit all McCormick-Deering cultivators. H and M Attaching parts to convert 4 row FA 40 Go Dig to hydraulic.

Single front wheels complete with Tires and Tubes for C, H, B and M Tractors. Wide Front Axles for H or M Tractors. Hydraulic Cylinders for Cultivators. One 100 McCormick-Deering Hammer Mill. Corn Cultivators for A, C, H or M Tractor. Mounted two way Plows for Cub, C, A, H and M Tractors.

All new at regular list prices.

BRIDGEPORT EQUIPMENT CO. INC.
BRIDGEPORT, NEBR.

CHESTER WHITE SALE

Sale at farm, northeast of Oskaloosa and southeast of

NEW SHARON, IOWA, WED., MARCH 30th

Sale Starts 1:00 P. M.

75 HEAD — 25 FALL BOARS, 50 FALL GILTS

Choice, well grown, rugged, with type and quality, sired by **MASTER PRIDE**, by Master, a son of The Leader; **MASTER CHAMP**, top son of Master's Pride and **BROADWAY BOY**, a son of Broadway, 1947 Iowa grand champion. Out of one of the finest sow herds of the breed. Plenty of new blood for old customers. The place to buy fall boars or gilts, several will weigh 300 lbs. by sale day. You can buy boars and gilts unrelated . . . gilts are open, boars guaranteed breeders. They can be inspected before sale time. Come. Ask for **FREE** catalog. Kindly mention this publication.

NICK TERPSTRA & SONS, NEW SHARON, IOWA

KNOTEK-TIMM DUROC SALE!

At Timm farm, in comfortable pavilion on farm, located 3 miles west on No. 22

MUSCATINE, IOWA
MONDAY, MARCH 21st

50 OUTSTANDING SPRING GILTS

Your last opportunity to buy choice gilts sired by **AIRWAY, SNAPPY, DOUBLE DECK, KAYWARD LEADER, FAIRVIEW DELUXE, PROGRESS, MODERN TREND, LISBON TOPS,** and **JACK POTS IMAGE.** Best in breeding. 25 are bred to **TYPESETTER,** 10 to **KEYNOTE** and 15 to **POWERHOUSE** and **MODERN TIME.** Plan to attend. **COME.** Ask for **FREE** catalog. Please mention this publication. Address either

KNOTEK BROS.
Riverside, Iowa

HAROLD C. TIMM
Muscatine, Iowa

AUCTIONEER, GUY PETTIT

HIRED HAND HARLEY—"No Use Tryin' To Figger 'Em, Gramps"

A CALF FOOD Made from Butter MILK

Sell more milk • Grow big, thrifty calves • Wean calves from whole milk at 10 days • Each pail saves 250 lbs. of whole milk • *Order Kaff-A from your feed dealer, today.*

KAFF-A

CONSOLIDATED PRODUCTS CO. • DANVILLE, ILL.

LIVESTOCK FOR SALE

Swine

Cross-line Poland China Boars

Dairy Bulls

Ayrshire, Brown Swiss, Guernsey, Holstein and Jersey breeds. Bulls from 2 to 8 months of age.

ANIMAL HUSBANDRY DEPARTMENT
Iowa State College Ames, Iowa

AUCTIONEERS

AUCTIONEER

Successful sales for leading breeders, lifetime experience with livestock. Apply early, as I am busy during the season. Rates reasonable. Telephones, Residence 7-3645; Business 3-6181.

J. E. Halsey, Box 1317, Des Moines, Ia.

BE AN AUCTIONEER

INSTRUCTORS INCLUDE: A. W. Thompson, Earl Gartin, Charles Corkle, G. H. Shaw, Walter Britten, W. H. Heldenbrand, O. R. Peterson, H. D. Forke, Keith Goode, and others. Write for information:
NATIONAL AUCTION INSTITUTE
Box C9 Colfax, Iowa

LEARN AUCTIONEERING

America's leading Auctioneers teach you. Students sell actual sales during term. Our graduates are successful. Earn large income. Term soon. FREE catalog.
REISCH AUCTION SCHOOL Mason City, Iowa

BE AN AUCTIONEER

A pleasant, profitable occupation. Send for FREE catalog. Also how to receive Home Study Course.
Fred Reppert School of Auctioneering
Box 8, Decatur, Indiana

CAPITAL BRED, INTN'L BRED IPBSs appearing including 3d generation cattle and draft horse sales. We inform siring and winning records. IPBSs breed here sold breeder and sent on approval for reference. Breeding certified C8 or 18 one to sale offering. G. F. Sargent, Int'l. Auct. & Pres. Sargent's Intn'l. Auction School & College. Write for information and dates.
120 W. Third St., Sioux City 17, Iowa.

ABERDEEN ANGUS

MINNESOTA ANGUS ASSOCIATION SALE

LUVERNE, MINN., APRIL 28th

55 Registered Bulls and Females, rich in breeding. Good type and quality. **COME.** Ask for **FREE** catalog. Kindly mention this publication. Address

C. C. CHASE
Box 669 Pipestone, Minn.

ANGUS CATTLE

Choice bulls up to 22 months of age. Mostly sired by **Revolution B.A.S. 4,"** a winner at Iowa State Show and Sale. Also a few females. Come or write.
AUSTIN & GARRELS DUMONT, IOWA

REGISTERED ANGUS

Choice yearling bull by Imported sire and some good yearling bred heifers and 20 excellent open heifers. Best American and Imported blood lines, popular families.
BEN G. STUDER WESLEY, IOWA

AYRSHIRES

AYRSHIRE BULLS — FEMALES

Choice registered bulls 8 to 12 months old by Imported sire direct from Scotland. Good colors out of high producing Dams. Also offer a few good heifers. Reasonable.
BEN G. STUDER WESLEY, IOWA

AYRSHIRE BULL

Choice 2-year-old by approved sire and tested dam average **358** lbs. fat **2-X** M.E. for 4 consecutive years. REASONABLE.
MATT LAVENZ JESUP, IOWA

GUERNSEYS

CHOICE REGISTERED GUERNSEY BULLS

for high producing cows. 2 serviceable age and a few younger bulls. Bangs tested. H.I.R. records on dams.
CLARENCE SMITH, JR. PRIMGHAR, IOWA

DAIRY CATTLE

CHOICE HEIFER CALVES

Month old from Wisconsin's selected high production cows. HOLSTEIN and GUERNSEYS.
GREENWALD BROS. MUKWONAGO, WIS.
Oakland Dairy Farms.

U. S. SAVINGS BONDS ARE SAFE

GUERNSEY AND HOLSTEIN HEIFER CALVES Good, strong, carefully selected Guernsey or Holstein heifer calves, purebred, not registered. $45 on express car, older calves $50. 10 to 35 delivered by truck to your farm on approval. Also a few Brown Swiss calves.
H. R. LOBDELL MUKWONAGO, WIS.

HEREFORDS

ANNUAL SALE

JUNE 1st

50 registered 2-year-old bulls. **50** bred females. Blood lines: **HAZLETT, BEAU ASTER, REAL PRINCE DOMINO,** and **BATTLE MISCHIEF.** Recognized as leaders in Hereford industry. Ask for **FREE** catalog.

BONES STOCK FARM, INC.
Parker, South Dakota

HEREFORDS

25 good young cows bred to top bull of W.H.R. breeding. Choice bulls of serviceable age and coming yearling open heifers. Good collection, price reasonable. Visit farm, phone or write

F. S. BRISBOIS A. M. SMITH
Fonda, Iowa

HEREFORD BULLS

12 choice registered bulls from **12** to **18** months old by **WHR TRIUMPH DOMINO 79th.** Good quality, priced reasonable. Visit farm or write.
CHARLES AMOS, R. 1, INDIANOLA, IOWA

HEREFORD HERD BULL "TAMA MOLDER 3RD"

A Minish bred bull. Sired by **W.H.R. MOLDER 8th** and out of a **W.H.R. TRIUMPH DOMINO 13th** dam. Three years old and well developed. A proven sire. Priced reasonable.
GORDON LENZ R. 1 LUVERNE, IOWA

HOLSTEINS

HOLSTEIN BULLS

Choice Registered Bulls ready for service from high producing stock. **T.B.** and **Bangs** tested. REASONABLE.
ARCHIE SWANSON WILLIAMS, IOWA

HOLSTEIN BULLS

Governor of Carnation and Posh breeding, serviceable age. You will like them.
SHOMONT FARM MONTICELLO, IOWA

WISCONSIN HOLSTEINS

Heifer calves, about month old. Top quality Holsteins or Guernseys, 4 for $165.00 delivered. Also older calves. All charges prepaid. Will ship C.O.D. Order from this ad. Satisfaction guaranteed.
CHANDLER FARM LAKE GENEVA, WIS.

JERSEYS

JERSEY BULLS

Registered bull calves. Every calf from a good cow. Herd averaged 420 lbs. butterfat per cow for 13 years. Herd free T.B. and Bangs

J. J. NEWLIN
Polk County Johnston, Iowa

GOLDEN SUNSET JERSEYS

We believe we have the only herd outside of Biltmore Farms with two sons of Xenia's Sparkling Standard in service. Young bulls and bull calves for sale. Free list.
ENNIS STOCK & DAIRY FARM, FESTUS, MO.

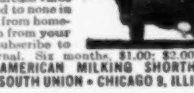
SHORTHORNS

NEED A SHORTHORN BULL?

We have a large number to select from. Bulls you will like at prices you will like. Always cordial and friendly treatment.
DEWAR BROS. CHEROKEE, IOWA

MILKING SHORTHORNS

MAKE MORE PROFITS UNDER AVERAGE FARM CONDITIONS —RAISE MILKING SHORTHORNS



For the average farmer, Milking Shorthorns are unbeatable. Produce 4% milk. Have greater carcass value than other breeds. Second to none in producing milk and meat from home-grown roughage and grain from your farm! Free facts. Or subscribe to Milking Shorthorn' Journal. Six months, $1.00; $2.00 per year; 3 years, $5.00. AMERICAN MILKING SHORTHORN SOCIETY • Dept. wf-s 4122 SOUTH UNION • CHICAGO 9, ILLINOIS

MILKING SHORTHORN BULLS

Up to Serviceable Age

Good colors, good production, good breeding, good type.

(On paved Highways 65-59—only 10 miles south of Des Moines)

McKEE FARMS
Carlisle Iowa Indianola

MYSHA FARM

Milking Shorthorn bull calves 1 to 10 months old by **RIVER GIFT** . . . classified very good, 7 nearest dams average 524 lbs. butterfat and his 2-year-old daughters are milking 35 to 43 lbs. daily. "You are from Missouri, Aye." O. K. We will be glad to show you. Offer also a few choice females. Ask for **FREE** folder.

NORAN SHAVER & SON
Telephone 51 or 16 St. Anthony, Iowa

MILKING SHORTHORNS

Because of illness will sell bulls from 4 months to 2 years old, including herd sire. 16 first calf heifers and a few mature cows. Best of breeding; highest milk production. Priced to sell. Phone 7-F-2.
CLARENCE W. STEIL, R. 2, MASON CITY, IA.

PEERLESS and BELLE VERNON HERD of MILKING SHORTHORNS

Bulls from **2** to **14** months old. Females from **2** months old to mature cows. Best of **BATES** . . . **CLAY** . . . and **IMPORTED** English families, with the highest milking ancestry possible to obtain. Also **WHITE COLLIE** Puppies, guaranteed natural heelers and drivers. Address
JOHN LOGSDON, Mgr. DECORAH, IOWA

TWO HOT NUMBERS IN 1949!

BOLSON'S Pig and Sow Meal—Mash or Pellets

BOLSON'S Contented Peep Chick Starter—Mash or Crumbles

Both these have the extras in Fish, Milk, Meat and Liver Meals, the Finest Cereals, plus Vitamins and Minerals.
Tie to these feeds in 1949! They are priced very reasonably.
Sold by Reliable Feed Dealers Only.

The L. C. BOLSON Co.
A NAME YOU CAN TRUST IN FEEDS!
DECORAH, IOWA.

MILKING SHORTHORNS

MILKING SHORTHORNS

Choice bulls and females. Desirable quality. Ruth B blood lines. 21,641-957 lbs. Now using Auvergne Chief. 11 nearest dams 12,767-510 lbs. Reasonable. Write or visit.
NAAB BROS. LAWLER, IOWA

POLLED SHORTHORNS

POLLED SHORTHORN BULLS

Choice quality, rich breeding. Reasonable. Phone, wire, or write
BERT A. HANSON
VERNON CENTER MINNESOTA

Polled SHORTHORN BULLS

Choice reds and roans sired by **VICTOR CREED** X2343041. Good Scotch topped Dams. REASONABLE.
A. L. DUNHAM & SON DUNLAP, IOWA

BERKSHIRES

PUREBRED BERKSHIRE GILTS

to farrow last of March. Also yearling fall sows to farrow last of April.
WHITE ACRE FARM SULLY, IOWA

DUROC JERSEYS

DRUMMY'S DUROCS

30 choice dark red, lengthy deep bodied, well nippled gilts, weighing **360** lbs. to **400** lbs. Bred to a truly great boar from that sensational litter sired by **KAYWARD LEADER,** 1948 Iowa Reserve Grand Champion. Will farrow March and April. **FALL** gilts, weight **250** lbs., open or bred for June farrow. Cholera immune. Farm 2 miles south, 1 mile east. **PRICED TO SELL.**
VINCENT DRUMMY RYAN, IOWA

HAMPSHIRES

STRUVE'S HAMPSHIRE BOARS

Choice fall boars, big, thick, rugged individuals, by **FAULTLESS WONDER,** top selling son of Faultless in 1947. Suitable for breeders and farmers.
ROY A. STRUVE MANNING, IOWA

HEREFORD HOGS

HEREFORD HOGS

NEW! DIFFERENT! DISTINCTIVE MARKINGS!
SHIPPED C O D YOUR APPROVAL
FREE CIRCULAR
YALEHURST FARMS, PEORIA, ILL.

HYBRID HOGS

HYBRID BOARS

Bred like and perform like hybrid corn . . . over 38 different lines available to genetically fit your sow herd. Dealership and county distributorships available. Circular FREE.
WILSON HYBRIDS, INC. HARLAN, IOWA

MINNESOTA NO. 2 HOGS

REGISTERED MINNESOTA NO. 2 FALL BOARS

100 lbs. to 200 lbs.
Long time vaccinated.
GORDON ANDERSON FAIRFAX, MINN.

POLAND CHINAS

HILL BROOK FARM POLAND CHINAS

September farrowed boars, sired by Made Smooth 17993, with size, quality, and breeding second to none, these boars have been fed right, and are ready for service, priced to sell. Also have a few bred gilts for April farrow.

OTTO F. SCHRUNK & SONS
Mapleton, Iowa

POLAND CHINA BOARS

Good, rugged fall boars sired by Amazon by Congo Master and by Cyclone, 1st prize FFA at Iowa 1947. Boars you will like at prices you will like. Write or visit the farm.
BROWN & BROWN HAMPTON, IOWA

SPOTTED POLAND CHINAS

SPOTTED POLAND SALE

At farm, 2½ miles south
WINFIELD, IOWA, MARCH 23rd
80 HEAD

30 choice sows bred for April farrow. 25 good fall boars. 25 splendid fall gilts. Excellent breeding. Plan to attend.

EARL KELLOGG & SONS
Winfield, Iowa

SPOTTED POLANDS

Choice fall boars, extra good quality, large for their age. Priced to sell.
F. L. JACKSON & SONS
Phone 12 on 10 LYTTON, IOWA

SPOTTED POLAND CHINAS

Sows and gilts bred for March, April and May. Also fall boars, leading blood lines. The offering is outstanding in quality.
PETER WITT KEYSTONE, IOWA

SPOTTED POLANDS

Choice registered fall boars and gilts, August and September farrow by **SPOTTED BOY** and Dams by **Feeder's Model** and **BINGO 2d.** They have plenty of size, color and quality. Will ship anywhere.
W. E. BRENTNALL & SONS, PRESCOTT, IA.

SPOTTED POLANDS

Choice fall boars, wonderful individuals. Show prospects. By Perfection. Dams from Nation's leading herds. Farm 5 miles N. 1½ miles E. on No. 71.
ROBERT EDDIE & SONS, STORM LAKE, IA.

La Crosse County Guernsey Breeders ANNUAL SPRING SALE

WEST SALEM, WISCONSIN
MARCH 31
10 O'clock A. M.

125 head high grade and registered Guernsey. Choice consignments.

VILAS E. YOUNG, Secy.
West Salem, Wis.

20 FALL BOARS

Choice fall **Chester White** boars, well grown, excellent type, displaying real quality, sired by great herd boars. Plenty of new blood for old customers. Priced reasonable for quick sale. Act now.

C. T. KEEN & SONS
LEGRAND, IOWA

YORKSHIRES

YORKSHIRE HOGS

Registered Breeding Stock of all ages for sale.
PORTERS YORKSHIRE FARM
ELDRIDGE, IOWA
8 miles north of Davenport

HORSES

BELGIAN STALLIONS

Choice stallions ready for service, good style and quality. Best in blood lines.
WRITE NOW
MAX HEINZE KAHOKA, MISSOURI

SHEEP

SUFFOLKS AND LINCOLNS

Choice bred ewes of either breed, sired by or bred to Champions. Write or wire. Shipped on approval.
CRANDELL'S PRIZE STOCK FARM
ITHACA, MICH.

DOGS

Notice—Unsatisfactory dogs must be returned within time specified by advertiser. Buyer always pays express charges (both ways if dog is returned) unless advertiser states in advertisement that he will do so.

GENUINE ENGLISH SHEPHERD PUPS

Guaranteed heelers. Year's trial, training instructions. Males, females or spayed females.
HIGHVIEW KENNELS, CEDAR FALLS, IOWA

BEST YET ENGLISH SHEPHERD PUPS

Guaranteed to bring home the cows. Year's trial. Choice of sex. Spayed females a specialty. Priced right.
CLOVERDALE FARM ACKLEY, IOWA

Purebred Border Collies English Shepherds

America's most useful dogs. Puppies all ages. Both sexes. Choice colors. Faithful workers. Satisfaction guaranteed.
We breed and sell our own stock.
FAIRMOUNT FARMS - CEDAR FALLS, IOWA

SHEPHERDS, COLLIES

ENGLISH SHEPHERD, OR COLLIE PUPS for watch and stock. Also registered Scotch collies. Reasonable.
ZIMMERMAN FARMS FLANAGAN, ILL.

WANTED TO BUY

Good English Shepherd or Collie Pups
Write Box 1, Wallaces' Farmer and Iowa Homestead

Shomont Collies

Workers—Companions—Guards. Write for free lists.
SHOMONT FARMS AND KENNELS
MONTICELLO IOWA

GENUINE ENGLISH SHEPHERD AND COLLIE PUPS

Guaranteed heel-drivers (no fooling). Year's trial, training instructions. (50,000 satisfied customers.) Males — females — spayed female specialty, $15.00. (Distemper vaccinated.)
EMIL RUNFT REINBECK, IOWA

CHINCHILLAS

RAISE CHINCHILLAS

in your basement and increase your income. Write for free literature.
DAVISON CHINCHILLA RANCH
705 28th Street Des Moines, Iowa

When writing to our advertisers, please mention that you read their advertisement in Wallaces' Farmer and Iowa Homestead.

Coming Livestock Sales

ABERDEEN ANGUS

Mar. 21—Wilton Farms, Otto G. Nobils, Davenport, Iowa.
Mar. 21—Night Sale, Eastern Iowa Assn., Davenport, Iowa; Oliver A. Hansen, Secy., Durant, Iowa.
Mar. 22—"The Jilt Jubilee of 1949," Columbus Jct., Iowa; Forrest M. Larmer, Sale Mgr., Muscatine, Iowa.
Mar. 23—Frank Bradley & Sons, Avon, Ill.
Apr. 19—Warren County Angus Breeders Assn. sale at Indianola, Iowa; Earl F. Lohr, Secy. and Mgr., Earlham, Iowa.
Apr. 22—Southeast Iowa Breeders, Mt. Pleasant, Iowa; Earl Fickel, Secy., Batavia, Iowa.
Apr. 23—Central Illinois Breeders, Congerville, Ill.; S. F. Lantz, Secy.
Apr. 25—Marion County Breeders, Knoxville, Iowa; Herbert Cline, Secy., Bussey, Iowa.
Apr. 26—Iowa Southern Angus Sale, at Osceola, Iowa; Richard Bell, Secy. and Mgr., Osceola, Ia.
Apr. 27—Page County Aberdeen Breeders Assn. Sale, at Clarinda, Iowa; Lawrence Varley, Mgr., Shenandoah, Iowa.
Apr. 28—Maryerest Farms, Maloy, Iowa.
Apr. 28—Minnesota Angus Assn., Luverne, Minn.; C. C. Chase, Secy., Box 669, Pipestone, Minn.
May 9—Dr. Frank H. Rose, Albany, Mo., and W. P. McCrea, Maryville, Mo.; sale at Maryville.
Apr. 27—Hoelscher Bros., Arcadia, Iowa; sale at Denison, Iowa.
May 31—Tallcorn Breeders Assn., Marshalltown, Iowa; C. G. Mason, Secy., Box 243.
June 6—Glyn Mawr Farms (Dispersion), Olin, Iowa.
June 7—I. E. Kemp, Marion, Iowa.
June 13—Wayland A. Hopley, Atlantic, Iowa.
June 14—South-Central Assn., Oskaloosa, Iowa; Clyde A. Hanna, Secy., Oskaloosa, Iowa.

HEREFORDS

Mar. 22—Sioux City, Iowa; Iowa Hereford Cattle Breeders Assn.; F. W. Ketelsen, Secy., Everly, Iowa.
Apr. 4—Clifford Bell, Jr., Pulaski, Iowa; sale at Bloomfield, Iowa.
Apr. 15—Northeast Missouri Assn., Memphis, Mo.; Geo. E. Leslie, Jr., Secy.
Apr. 22—Circle A Hereford Farms, Morris, Ill.
Apr. 23—Wisconsin State Sale, Madison, Wis.; Homer Graber, Secy., Mineral Point, Wis.
Apr. 25—Midiowa Hereford Assn., Liscomb, Iowa; Mrs. Harold J. Peterson, Secy., Liscomb, Iowa.
June 1—Bones Stock Farm, Parker, S. D.

POLLED HEREFORDS

Apr. 2—Illinois Polled Hereford Assn., Springfield, Ill.; Ernest Painter, Secy., La Harpe, Ill.
Apr. 13—Southeastern Iowa Breeders Show and Sale, Oskaloosa, Iowa; Calvin L. Cruzen, Mgr., New Sharon, Iowa.

SHORTHORNS

Mar. 24—Emory Larson (Dispersion), Harlan, Iowa, with draft from Gingery & Burns, Harlan, Iowa, and Herman Leiting, Arcadia, Iowa; sale at Carroll, Iowa.
Mar. 28—Northwest Missouri Breeders, Maryville, Mo.; James Meyer, Sale Mgr.
Mar. 29—Sioux Empire Shorthorn Club, Sioux Falls, S. D.; Al Halverson, Secy., Box 841, Sioux Falls, S. D.
Apr. 4—Southwest Iowa Breeders, Red Oak, Iowa; Reg Gilman, Mgr., Stuart, Iowa.
Apr. 30—Marelthar Frms, Libertyville, Ill.
May 23—South-Central Iowa Breeders, Knoxville, Iowa; Walter Brown, Mgr.
June 4—Minnesota State Sale, Blue Earth, Minn.; N. T. Findahl, Mgr., Waterville, Minn.
June 6—Evelyn Farm, Wilson, Ill.
June 7—Chicagoland Sale, Chicago, Ill.; Hal Langley, Mgr.
June 17—Breeders Sale, Abingdon, Ill.; Hal Langley, Mgr., 16 S. Locust St., Aurora, Ill.

POLLED SHORTHORNS

Apr. 27—South Dakota State Assn. Sale, Sioux Falls, S. D.; Eric H. Thormodsgaard, Sale Mgr., Huron, S. D.
Apr. 28—Julius Hansen (Dispersion), Murdock, Minn.; Mery F. Aegerter, Mgr., Seward, Neb.
May 23—National Congress Show and Sale, Indianapolis, Ind.
May 25—Polled Shorthorn Club of Minnesota, Slayton, Minn.; M. H. Bassett, Secy., Rushmore, Minn.

MILKING SHORTHORNS

Apr. 27—Breeders Sale, Council Bluffs, Iowa; H. C. McKelvie, Mgr.

DAIRY CATTLE

Mar. 21—Iowa State Holstein Assn., Waterloo, Iowa; Dallas V. McGinnis, Secy., 912 Waterloo Bldg.
Mar. 24—Dr. Irish and K. Hanna (Holstein Dispersal), Forest City, Iowa; Claude E. Wylam, Sale Mgr., Waverly, Iowa.
Mar. 26—Mower County Guernsey Breeders, Austin, Minn.; Carl E. Kehret, Mgr.
Mar. 31—LaCrosse County Guernsey Breeders, West Salem, Wis.; Vilas E. Young, Secy., West Salem, Wis.
Apr. 14—Eastern Iowa Holstein Sale, Wellman, Iowa; P. M. Swartzendruber, Mgr.
Apr. 20—Eastern Iowa Guernsey Sale, Wellman, Iowa; P. M. Swartzendruber, Mgr.
Apr. 28—Iowa State Guernsey Breeders, Des Moines, Iowa; C. H. Jennings, Mgr., R. 6, Iowa City, Iowa.
June 1—Breeders Sale (Ayrshires), Council Bluffs, Iowa; H. C. McKelvie, Mgr.

CHESTER WHITES

Mar. 20—Nick Terpstra & Sons, New Sharon, Ia.

DUROC JERSEYS

Mar. 21—Knotek Bros., Riverdale, Iowa, and Harold C. Timm, Muscatine, Iowa.
Apr. 20—Juhl Bros., Luverne, Minn.

POLAND CHINAS

Apr. 8—Iowa Poland China Breeders Assn., Cedar Rapids, Iowa; Fred W. Morgan, Secy., 5801 College Ave., Des Moines, Iowa.

SPOTTED POLAND CHINAS

Mar. 23—Earl Kellogg & Sons, Winfield, Iowa.

LIVESTOCK FIELDMEN

M. T. WHITE, 604 No. Fortieth St., Omaha, Nebraska. Phone Walnut 1056.
J. E. BALSEY, 1912 Grand Ave., Des Moines.
M. W. BONEY, Box 740, Storm Lake, Iowa; Phone 970-R.

We publish the FIRST and THIRD Saturday of every month. Copy for livestock advertising must reach our office FIFTEEN days before date of issue.

Livestock News

Thru an error in the report of the Polled Shorthorn sale at Omaha, Neb., February 17, in the report in our issue of March 5, we erroneously reported the bull Valley View Jupiter, at $1,000, consigned by Fred Blomstrom, as going to Howard Brunkow, Manly, Iowa, and Paul Mann, Wabash, Iowa. It should have read Howard Brunklow, Wabash, Neb., and Paul Mann, Manley, Neb. We regret this error.

Bert Brook & Sons, Sioux Center, Iowa, held two successful Duroc sales, January 26 and February 22. In the first offering, a top of $610 was reached. A fall boar sired by the herd sire, Mr. Blue Print, sold for $400, and another for $200. In the first sale, 48 bred gilts averaged $198, and in the second sale 66 head averaged $181. The 114 gilts made a general average of $183.

Around the Farm AND IN THE Feed Lot

HOWARD HERBERT, sales manager for Walnut Grove, can rightfully claim to be a "champion farm visitor." In the interest of more efficient swine breeding and feeding, Mr. Herbert has, in the past 39 years, visited enough midwestern farms to make the equivalent of travels that would have taken him around the world eight times.

UPON GRADUATION from Iowa State College in 1910, Howard Herbert started serving hog producers through the medium of leading farm papers and breed publications. Then, in 1927, "Herb," as his associates have come to know him best, found opportunity for an even greater expression of farm service by joining the Walnut Grove Products Company. His work with W. E. Kelloway and the late Howard Marshall, and the uninterrupted growth made by Walnut Grove since 1927, is evidence enough that Howard Herbert, along with the hundreds of Walnut Grove representatives working with him, has been doing an outstanding farm service job.

PROOF of the interest in livestock was again seen a few weeks ago when a Hereford cow named "Grady" plunged through an unbelievably small silo door on the Bill Mach farm in Oklahoma. Mr. Mach couldn't figure out how to get the thousand-pound animal out through a 25 by 17 inch opening, so he appealed for help. Suggestions came from the Governor of Oklahoma and from 45 other states and Canada. Finally a Denver farm editor flew to Mach's place, greased "Grady" from head to hoofs, and with much pulling and pushing got her out through the same door she came in—but it was a tight squeeze.

NO PIECE of merchandise can be successful without quality. In a livestock mineral that means high-quality ingredients used in mixing the product and a proper balance of these minerals. Walnut Grove is that kind of a mineral, and is used extensively in Dallas county, Iowa, by the following customers and many others: Rhinehart Farms, Inc., Barrett & Benz, Harold Dawes, Rollie Paul and son, Joe E., Paul & Robinson, Dallas County Home and Jess Walker. The man who looks after Walnut Grove business in this territory for us is Claude West, of Adel.

FIELD WORK will be upon us before we know it. If your tractor has been idle for some weeks, it is best to drain out the old or worn oil from the crankcase, flush and refill. Also make sure that the carburetor is clean and in proper adjustment. Check, re-gap and clean the spark plugs. See that the battery is charged and has enough battery water, and, last but not least, make sure that the tires are properly inflated.

PRICE DECLINES have already been quite evident in some farm lines. The new year started out bad when record shipments of hogs to market sent quotations tumbling a dollar or more per cwt. The extent of the decline in meats is also seen in a consumer survey which shows that in a period of six months T-bone steaks dropped 24 cents a pound, lamb 10 cents and bacon and hamburger 8 cents a pound. Milk was the only animal product showing an increase, and it was minor.

OF SPECIAL INTEREST to hog producers is the recent government announcement that hog prices will be supported at 90 per cent of parity through March 31, 1950. Originally the 90 per cent floor was to expire December 31, 1949, but to assure reasonable returns for this year's spring crop the extension has been arranged. The plan will also help distribute marketings over a longer period, thus helping to avert gluts. Providing those spring pigs with Walnut Grove minerals will also help assure more efficient production and more profitable returns.

HEAVY LAYERS of ice this winter are believed to have killed many acres of new seedings. If this proves to be true, it will further aggravate an already serious situation in regard to grass and legume seeds. Heaviest losses are expected in northeastern Iowa, northwestern Illinois, and parts of Wisconsin and Minnesota. State farm experts urge securing any additional seed needed as early as possible and making sure it is weed-free and adapted to the area in question.

IF THERE IS any animal on the farm that needs mineral it is the dairy cow, who has a three-fold purpose in life, namely, supplying her own body nutrients, producing a calf and giving milk. Most dairymen realize this and are using mineral in their feeding rations. Customers in Wright and Hancock counties, among many others who use Walnut Grove Minerals in all their feeding plans, include Verner Nelson, Raymond Barz, Albert Prebe, Menno Albers, Labert Barkema, Harry Menenga and Clarence Newburger. These men receive their Walnut Grove service from our salesman, Henry Nuehring, of Belmond.

SHEEP DOGS are common, but now comes the amusing report about a "sheep goose." Back east, in New Jersey, there's a goose, or rather a gander, on the Bob Baer farm, that is showing the sheep who is boss. "Flat Foot," as the gander is called, started out by jumping on a ram's back and guiding the animal with a furious flapping of wings. Now old "Flat Foot" has the flock so well trained that he can proudly lead the sheep wherever and whenever he pleases.

Walnut Grove Minerals

SOLD ONLY BY *DEPENDABLE REPRESENTATIVES*
★ HOME OFFICE ATLANTIC, IOWA

Livestock News

The Roy V. Copp Chester White sale, at Glidden, Iowa, on February 28, proved to be one of the very best sales of the season, and he sold 40 head of bred sows at an average of $163 per head. Altogether, he sold 59 head at an average of $149. Breeders were there from nine different states. We are listing those selling for $150 and above: No. 28, Gifford Anderson, Colon, Neb., $235; 1, A. Bidne & Son, Lake Mills, Iowa, $225; 13, B. F. Held & Son, Hinton, Iowa, $235; 14, Chester Gulliksson, Bath, S. D., $305; 5, Ted Trowbridge, Marshalltown, Iowa, $225; 4, Alfred Sexton & Sons, Rockwell City, Iowa, $200; 2, Bob Meyerhoff, Dunkerton, Iowa, $220; 8, Joe Madden, Maryville, Mo., $175; 41, Chas. E. Wintermute, Blockton, Iowa, $255; 43, Kenneth Wendt, Buckingham, Iowa, $180; 35, Chas. Mayne, Harlan, Iowa, $150; 31, Vernor Plant, Gowrie, Iowa, $165; 29, Lloyd Black & Son, Farnhamville, Iowa, $150; 53, Emil Meher, $160; 7, Gifford Anderson, $155; 56, Henry Loots, Palmer, Iowa, $155. The remainder sold for from $115 to $150. Col. J. E. Halsey did the selling.

Robert Jacobson, Hancock, Iowa, held his first Berkshire sale at his farm home, five miles east of Hancock, Iowa, on February 18, and he made an average of $140 on 38 head of bred sows. He did not have the best of a day to sell, and the roads were quite hilly and very muddy; but, in spite of that, he had one of the best sales of the winter season. He certainly had a nice offering, and they were in good condition. His top sow was No. 8, and she went to Ralph Morgan, Fairfield, Ill., at $320. No. 5 brought $200, and she went to Dug Busse, Elk Point, S. D. No. 1 brought $255, going to Gene Ashleman, Bridgewater, Iowa. No. 36 sold for $200 to J. W. Stroeber, Adair, Iowa. Besides these, Mr. Jacobson also sold 10 or 12 fall gilts and fall boars, and they sold well. Col. C. W. Schladweiler was the auctioneer.

● Excellent educational and descriptive material on these subjects is offered to you by advertisers in this issue. Write direct to the manufacturers whose advertisements appear on these pages for your copy of this information.

Page

DAIRY EQUIPMENT AND SUPPLIES:
Separator Information 16

FARM BUILDINGS AND IMPROVEMENTS:
Awning Information 69
Barn Cleaner Information 11
Brooder House Information 50
Corn Crib Information 62-71
Fence Catalog 64
Grain Bin Booklet 20-57
Heating System Information 50
Hog House Information 62
Portable Convertible Buildings Information 51
Prefabricated Brooder House Literature 51
Steel Corn Crib Information 53
Water System Information 43-59-61-63-66

FARM MACHINERY AND SUPPLIES:
Air Compressor Folder 54
Combine Unloading Augers Information 65
Corn Stalk Shredder Booklet 64
Crop Blower Details 59
Cultivator Literature 65
Discing Information 70
Feed Mixer Catalog ..... [illegible]
Fertilizer Spreader Folder 67
Forage Harvester Literature 62
Generator Details 70
Grain Elevator Catalog 67
Grain Unloader Information 52-61
Grain and Roughage Mill Information 71
Hydraulic Pump Information 56
Hydraulic Loader Plans 67-68
Loader Booklet 28
Miscellaneous Farm Machinery Information 17-63
Post Hole Digger Information 69
Power Mower Literature 67
Road Gear Information 68
Rotary Cutter Literature 55
Rotary Scraper Literature 57-63
Rubber Husking Roll Information 71
Saw Information 57-62
Sheep Shearer Bulletin 66
Silo Unloader Information 11
Sprayer Literature 24-52-65-66-67-69-71
Tile Cleaner Folder 63
Tractor Loader Information 61
Tractor Parts Information 70
Tractor Seat Literature 70
Truck Parts Catalog 64
Wagon Dumper Folder 55-67
Welder Information 69
Wire Winder Circular 52-66

FEEDING AND LIVESTOCK REMEDIES:
Milk Protein Information 10
Mineral Feeding Information 3-63-75

HOMEMAKING:
Coffee Making Booklet 37
Electric Appliance Information 66
Vacuum Cleaner Demonstration 42

NURSERY AND SEEDS:
Flax and Crop Booklet 59
Hybrid Seed Corn Catalog 14
Seed Information 43
Seed Corn Catalog 43
Weed Control Problems 57-65

MISCELLANEOUS:
Automobile Literature 65
Corn Borer Circular 26
Explosive Information 68
Insurance Booklet 71
Mail Box Nameplate Literature 70
Rheumatism Booklet 62

MINNEAPOLIS-MOLINE MM MODERN MACHINERY

MONEY MAKERS

DRUDGERY ELIMINATORS AND TIME SAVERS

Save on time and labor, reduce waste by baling your crop with the MM Bale-O-Matic . . . it makes firmly packed square cornered bales and ties them with 2 strands of wire . . . the only man power required is the tractor operator.

Preparing a good seed bed with MM Visionlined Tractors and MM high-clearance Disc Harrows helps increase yields by assuring uniform depth of covering seed and therefore uniform germination, growth, and ripening.

MM Power Units provide low-cost dependable power for irrigation, corn shelling, and many other modern farming tasks.

MM's famed Moline-Monitor Drills put the seed in evenly at uniform depth for good yield and assurance of even ripening.

Engineered TO HELP YOU MAKE MONEY—

for minimum maintenance and operating costs, too

KEEP COSTS DOWN — PRODUCTION UP!

Team up with thrift by using Minneapolis-Moline Modern Machines, Vision lined Tractors, and Power Units to keep operating, upkeep, and labor costs *down*. MM's *quality* line of farm equipment is engineered to *economize* on fuel, to *minimize* repair needs, to *reduce* the farmer's work and help him cut waste by increasing his yields and getting *all the crop!* MM Visionlined Tractors, The Bale-O-Matic, Harvestors, Huskors, Corn Shellers, Plows, Harrows, Drills, and other MM Modern Machines are *tested-for-thrift* to do all your work with maximum economy and unexcelled dependability . . . generally you can put your crops in and harvest them when conditions are exactly right.

MM Modern Machines, Visionlined Tractors, and Power Units help *conserve the soil*, providing mechanized methods for tilling the earth scientifically to produce more—yet helping to assure bountiful harvests for the generations to follow. MM equipment is a caretaker of crops . . . a guardian of the granaries of the world . . . a conserver of natural resources . . . MM products are built to keep maintenance and operating costs down!

Quality Built TO DO THE WORK

MM Modern Machines give you season-long service year after year on every job. Rugged construction, precision-engineered parts, all-round quality have made MM Modern Machines a symbol of high standards and endurance. MM has the *proved ability* to do the job fast, well and at low cost.

Get All the Facts on MM Modern Machines, Visionlined Tractors and Power Units from your Neighborly, Neighborhood MM Dealer

MM's new Model Z Visionlined Tractor easily pulls this 3-bottom plow under many conditions. Conveniently located control on MM's new Uni-Matic Power permits operator to raise and lower bottoms with only a slight push on the lever.

MINNEAPOLIS-MOLINE

MINNEAPOLIS 1, MINNESOTA